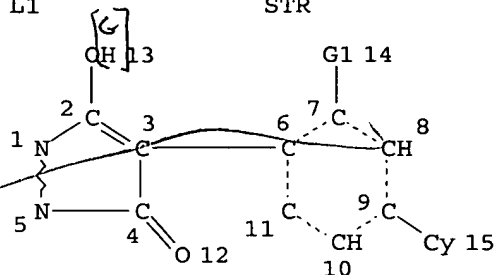


File Copy

Page 1

=> d l3 que stat;fil caplus;s l3  
L1 STR



G=Hydrogen

VAR G1=X/O/S/AK/NO2/CN  
NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE  
L3 72 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 716 ITERATIONS  
SEARCH TIME: 00.00.02

72 ANSWERS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	162.62	162.83

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FILE LAST UPDATED: 24 Aug 2005 (20050824/ED)

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Prepared by: Mary Hale @2-2507 Rem Bldg 1D86

L4 2 L3

=&gt; d 1-2 ibib abs hitstr

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:1127373 CAPLUS

DOCUMENT NUMBER: 142:56298

TITLE: Preparation of N-heterocyclylphenyl-substituted cyclic ketoenols as pesticides and/or herbicides and/or microbicides.

INVENTOR(S): Fischer, Reiner; Ullmann, Astrid; Bretschneider, Thomas; Lehr, Stefan; Kunz, Klaus; Konze, Joerg; Malsam, Olga; Drewes, Mark Wilhelm; Feucht, Dieter; Kuck, Karl-Heinz; Wachendorff-Neumann, Ulrike; Moradi, Wahed Ahmed; Bojack, Guido; Auler, Thomas; Hills, Martin; Kehne, Heinz

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 311 pp.

CODEN: PIXXD2

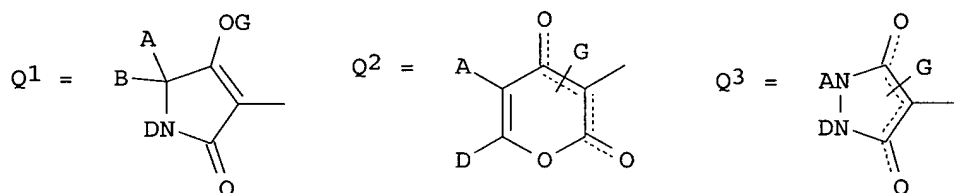
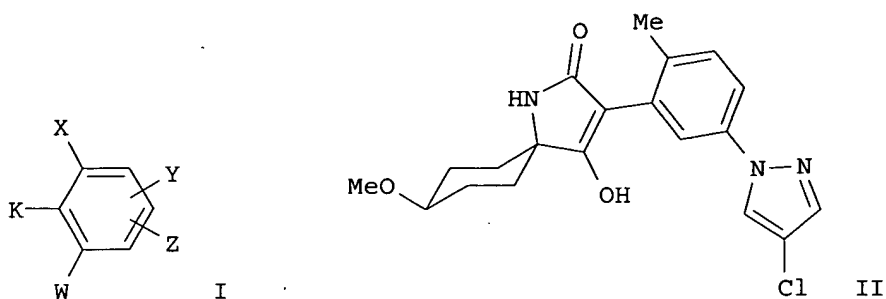
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004111042	A1	20041223	WO 2004-EP6127	20040607
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10326386	A1	20041230	DE 2003-10326386	20030612
PRIORITY APPLN. INFO.:			DE 2003-10326386	A 20030612
OTHER SOURCE(S):			MARPAT 142:56298	
GI				



AB Title compds. [I; X = halo, alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkyl, NO<sub>2</sub>, cyano, (substituted) Ph, PhO, PhS, phenylalkoxy, phenylalkylthio, etc.; W, Y = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, haloalkyl, haloalkoxy, haloalkenyloxy, NO<sub>2</sub>, cyano; Z = (substituted) (unsatd.) heterocyclyl; K = Q1-Q3; A = H, (halo-substituted) alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, (unsatd.) (substituted) cycloalkyl, etc.; B = H, alkyl, alkoxyalkyl; D = H, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, (unsatd.) cycloalkyl, etc.; AB, AD = atoms to form (heterocyclic) ring; G = COR<sub>1</sub>, SO<sub>2</sub>R<sub>3</sub>, C(:L)MR<sub>2</sub>, etc.; L, M = O, S; R<sub>1</sub> = (halo-substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, alkylthioalkyl, etc.; R<sub>2</sub> = (halo-substituted) alkyl, alkenyl, alkoxyalkyl, polyalkoxyalkyl, etc.; R<sub>3</sub> = (halo-substituted) alkyl, alkoxy, alkylamino, alkylthio, alkenylthio, cycloalkylthio, etc.], were prepared Thus, Me 1-amino-4-methoxycyclohexanecarboxylate hydrochloride was stirred 5 min. with Et<sub>3</sub>N in THF; 2-methyl-5-[1-(4-chloropyrazolyl)]phenylacetic acid (preparation given) was added followed by stirring for 15 min. Et<sub>3</sub>N and POCl<sub>3</sub> were added followed by 30 min. reflux to give 75% amide coupling product. The latter was stirred with KOtBu in DMF at 40-60° to give 6% title compound (II). II at 100 ppm gave 85% kill of *Spodoptera frugiperda* on cabbage leaves.

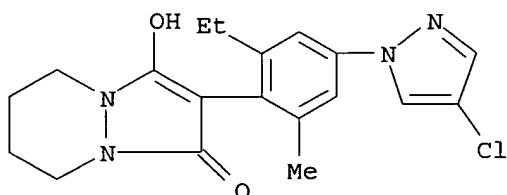
IT 810694-45-2P 810694-46-3P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

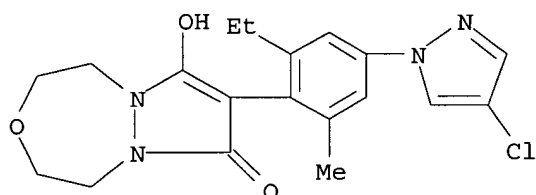
(preparation of N-heterocyclylphenyl-substituted cyclic ketoenols as pesticides and/or herbicides and/or microbicides)

RN 810694-45-2 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[4-(4-chloro-1H-pyrazol-1-yl)-2-ethyl-6-methylphenyl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



RN 810694-46-3 CAPLUS  
 CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[4-(4-chloro-1H-pyrazol-1-yl)-2-ethyl-6-methylphenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2001:185731 CAPLUS  
 DOCUMENT NUMBER: 134:222711  
 TITLE: Preparation of 3-alkoxy-5-oxo-4-phenylpyrazolines as herbicides  
 INVENTOR(S): Maetzke, Thomas; Wendeborn, Sebastian; Stoller, Andre  
 PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.  
 SOURCE: PCT Int. Appl., 76 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

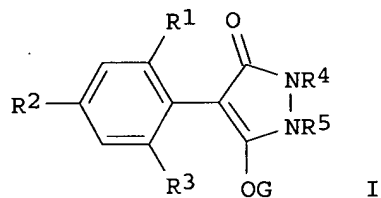
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001017973	A2	20010315	WO 2000-EP8657	20000905
WO 2001017973	A3	20010510		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2382432	AA	20010315	CA 2000-2382432	20000905
EP 1230245	A2	20020814	EP 2000-964108	20000905
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
PRIORITY APPLN. INFO.:			CH 1999-1644	A 19990907

WO 2000-EP8657

W 20000905

OTHER SOURCE(S):  
GI

MARPAT 134:222711



AB Title compds. [I; R1, R3 = H, halo, NO<sub>2</sub>, amino, cyano, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, PhCH<sub>2</sub>, etc.; R2 = (substituted) Ph, naphthyl, heteroaryl; R4, R5 = H, alkyl, haloalkyl, hydroxyalkyl, alkenyl, alkynyl, alkoxyalkyl, alkyl, alkylthioalkyl, cycloalkyl, halocycloalkyl, Ph, etc.; R4R5 = atoms to form a (substituted) 5-8 membered ring; G = H, CX<sub>1</sub>R<sub>30</sub>, CX<sub>2</sub>X<sub>3</sub>R<sub>31</sub>, SO<sub>2</sub>R<sub>34</sub>, alkali metal, alkaline earth metal, sulfonium, ammonium, etc.; X<sub>1</sub>, X<sub>2</sub>, X<sub>3</sub> = O, S; R<sub>30</sub>, R<sub>31</sub>, R<sub>34</sub> = H, (substituted) alkyl, cycloalkyl, etc.], were prepared Thus, di-Me (4-bromo-2,6-dimethylphenyl)malonate (preparation from 4-bromo-2,6-dimethylaniline given), hexahydro-1,4,5-oxadiazepine (preparation given), and Et<sub>3</sub>N were heated 4 h at 140° in xylene to give intermediate I (R<sub>1</sub>, R<sub>3</sub> = Me; R<sub>2</sub> = Br; G = H; R<sub>4</sub>R<sub>5</sub> = CH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>). II was converted in several steps to title compound I (R<sub>1</sub>, R<sub>3</sub> = Me; R<sub>2</sub> = Ph; G = COCMe<sub>3</sub>; R<sub>4</sub>R<sub>5</sub> = CH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>). Several I at 500 ppm postemergent gave 70-100% control of Avena, Lolium, Setaria, and Sinapis.

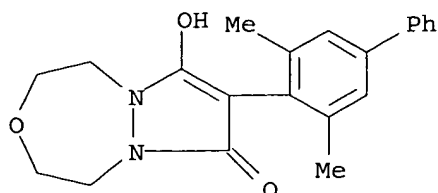
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329707-38-2P 329707-40-6P 329707-42-8P  
329707-44-0P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of alkoxyphenyloxopyrazolines as herbicides)

RN 329704-60-1 CAPLUS

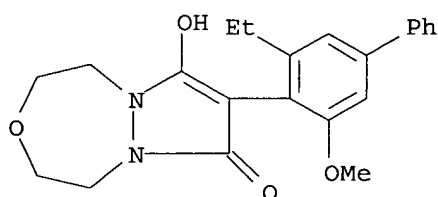
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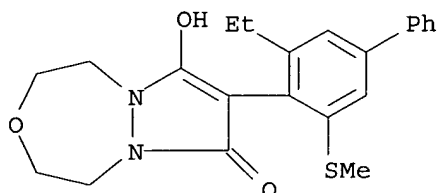
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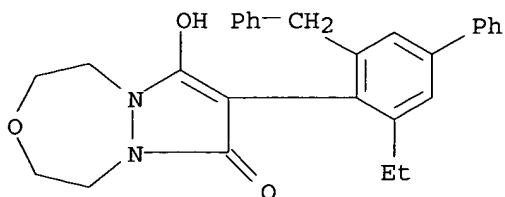
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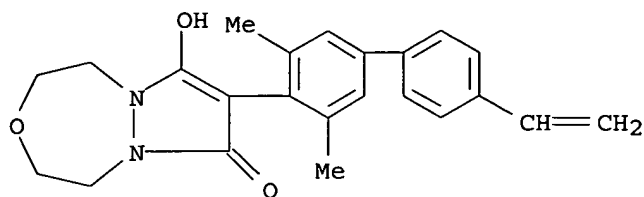
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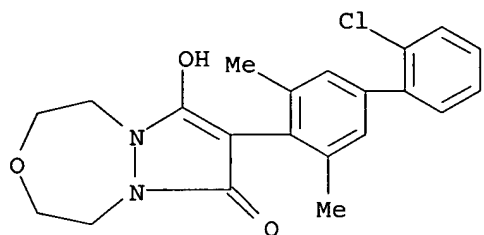
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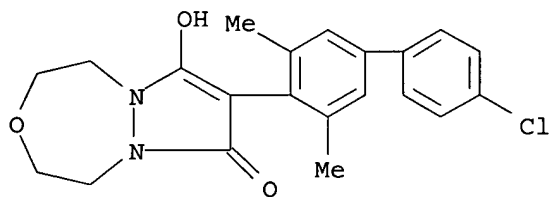
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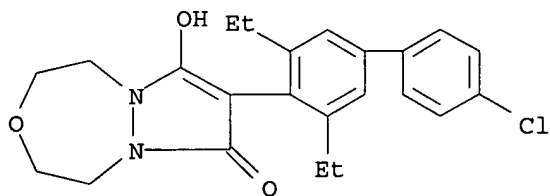
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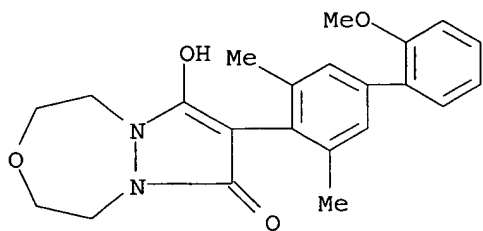
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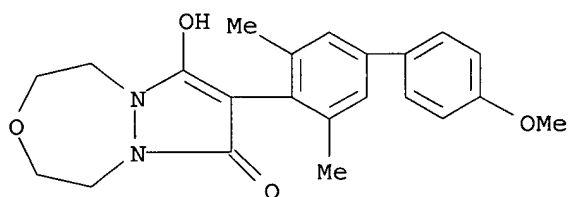
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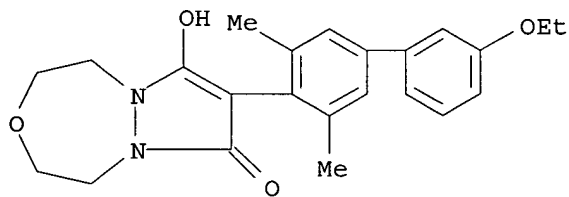
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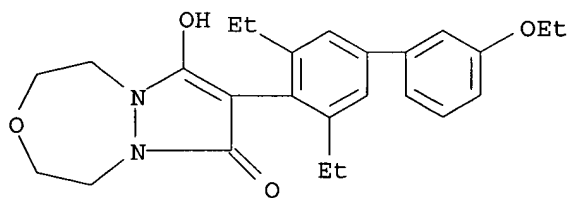
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RN 329704-94-1 CAPLUS

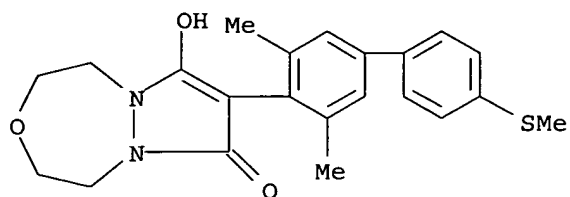
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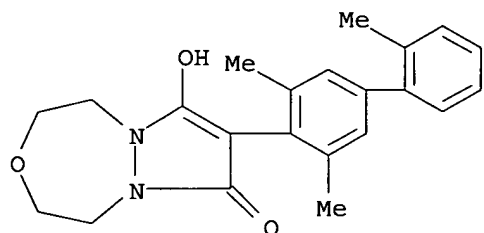
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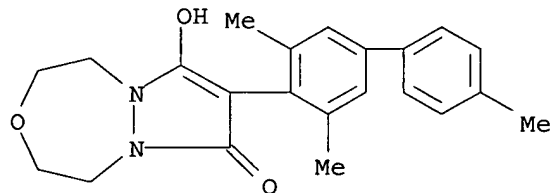
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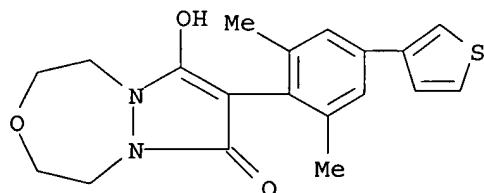
RN 329705-00-2 CAPLUS

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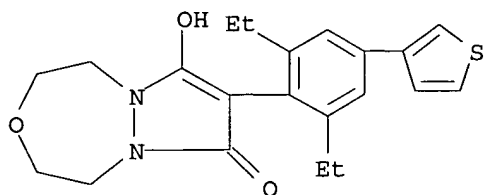
RN 329705-02-4 CAPLUS

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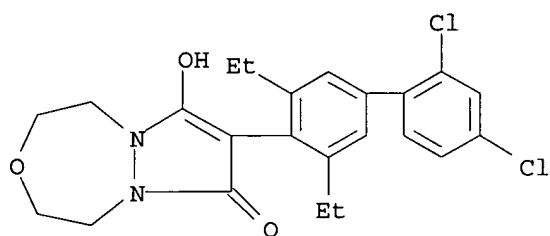


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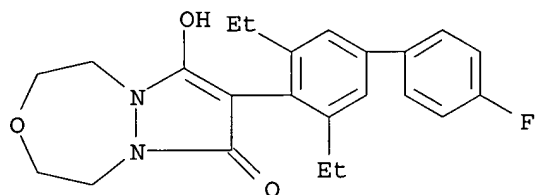
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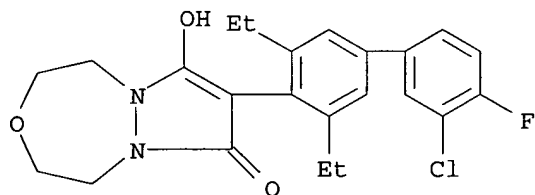
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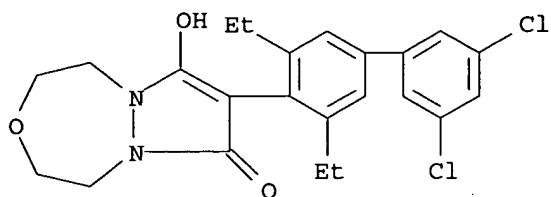
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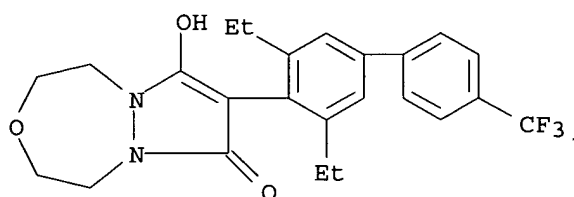
RN 329705-10-4 CAPLUS  
 CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(3'-chloro-3,5-diethyl-4'-fluoro[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



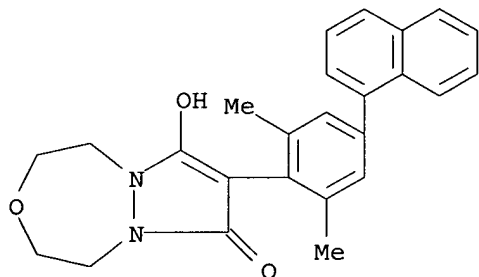
RN 329705-12-6 CAPLUS  
 CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(3',5'-dichloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



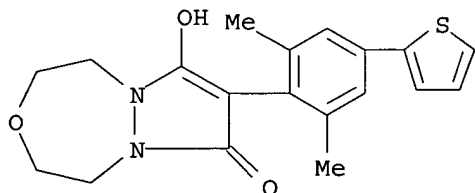
RN 329705-14-8 CAPLUS  
 CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[3,5-diethyl-4'-(trifluoromethyl)-1,1'-biphenyl]-4-yl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI)  
 (CA INDEX NAME)



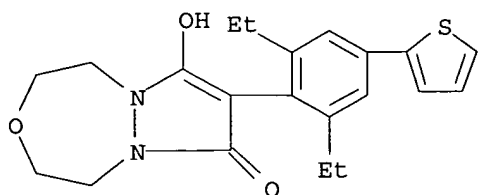
RN 329705-43-3 CAPLUS  
 CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,6-dimethyl-4-(1-naphthalenyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



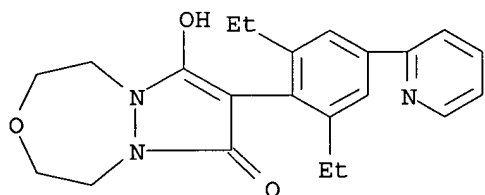
RN 329705-44-4 CAPLUS  
 CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,6-dimethyl-4-(2-thienyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



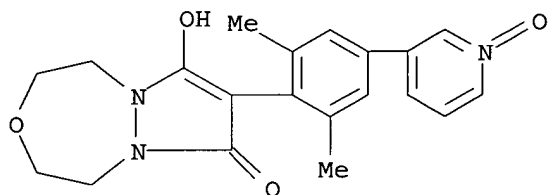
RN 329705-62-6 CAPLUS  
 CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,6-diethyl-4-(2-thienyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



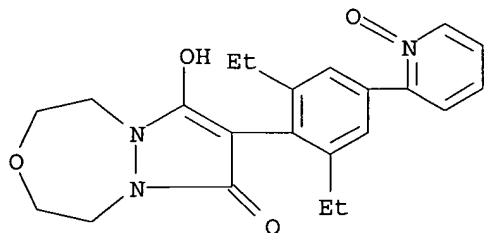
RN 329705-67-1 CAPLUS  
 CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,6-diethyl-4-(2-pyridinyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



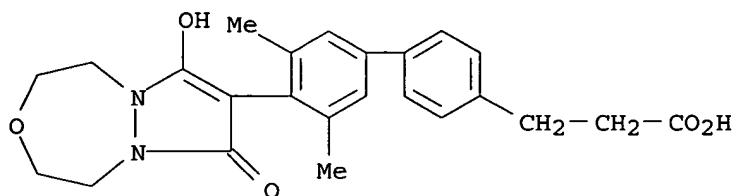
RN 329705-69-3 CAPLUS  
 CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,6-dimethyl-4-(1-oxido-3-pyridinyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



RN 329705-71-7 CAPLUS  
 CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,6-diethyl-4-(1-oxido-2-pyridinyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)

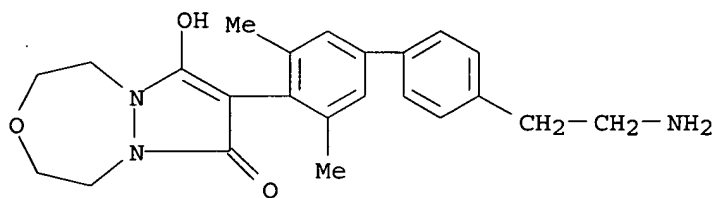


RN 329705-73-9 CAPLUS  
 CN [1,1'-Biphenyl]-4-propanoic acid, 3',5'-dimethyl-4'-(1,2,4,5-tetrahydro-9-hydroxy-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-8-yl)- (9CI) (CA INDEX NAME)



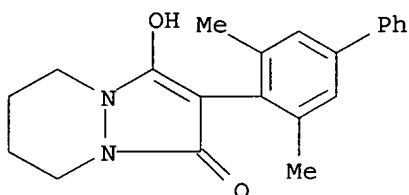
RN 329705-75-1 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[4'-(2-aminoethyl)-3,5-dimethyl[1,1'-biphenyl]-4-yl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



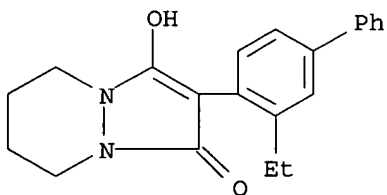
RN 329705-77-3 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



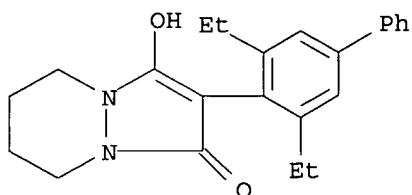
RN 329705-84-2 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3-ethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)

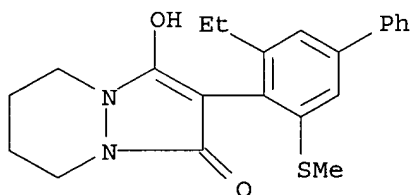


RN 329705-88-6 CAPLUS

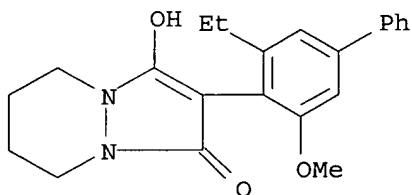
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



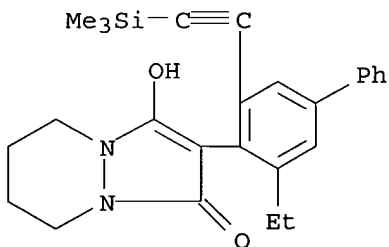
RN 329705-92-2 CAPLUS  
 CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[3-ethyl-5-(methylthio)[1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



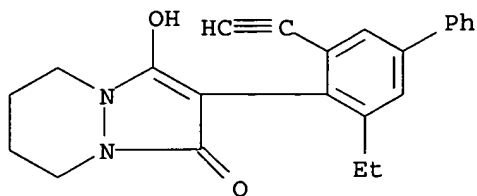
RN 329705-96-6 CAPLUS  
 CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



RN 329706-00-5 CAPLUS  
 CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[3-ethyl-5-[(trimethylsilyl)ethynyl][1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)

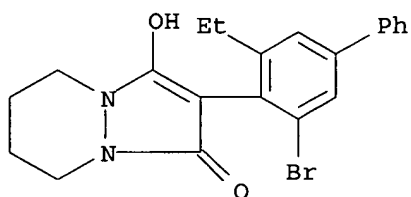


RN 329706-06-1 CAPLUS  
 CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3-ethyl-5-ethynyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



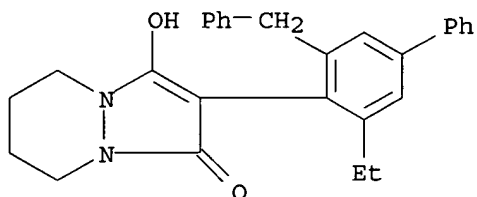
RN 329706-09-4 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3-bromo-5-ethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



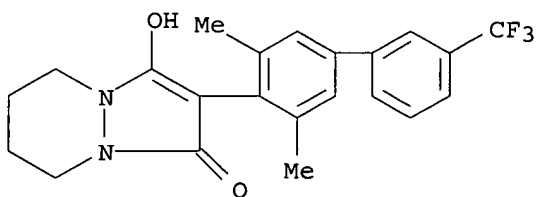
RN 329706-15-2 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[3-ethyl-5-(phenylmethyl)[1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



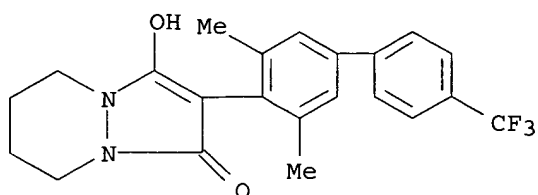
RN 329706-17-4 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[3,5-dimethyl-3'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



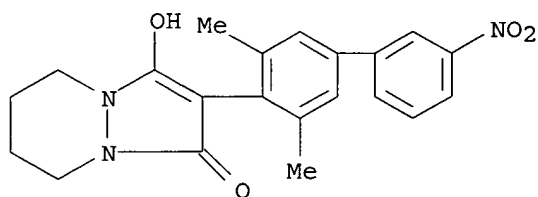
RN 329706-21-0 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[3,5-dimethyl-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



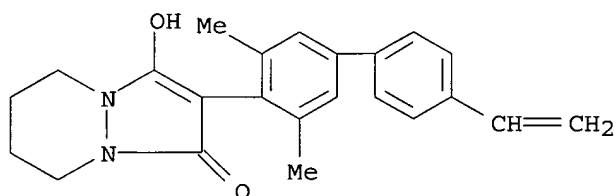
RN 329706-27-6 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3,5-dimethyl-3'-nitro[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



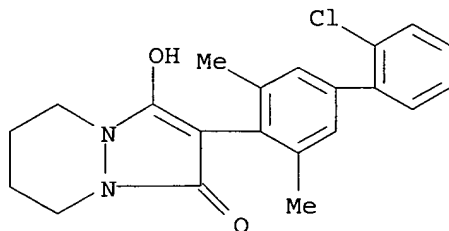
RN 329706-31-2 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



RN 329706-33-4 CAPLUS

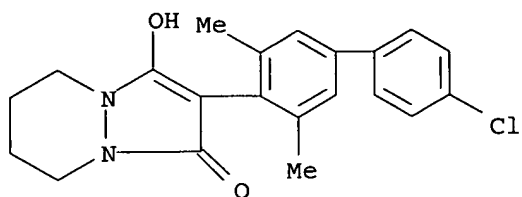
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



RN 329706-35-6 CAPLUS

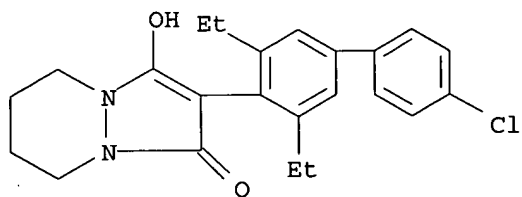
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(4'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)





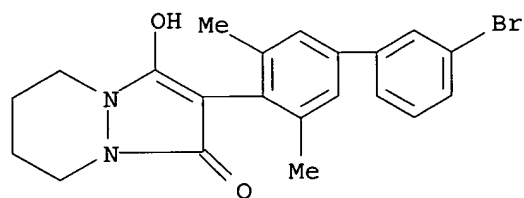
RN 329706-37-8 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(4'-chloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



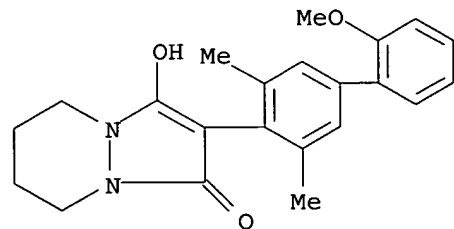
RN 329706-39-0 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3'-bromo-3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



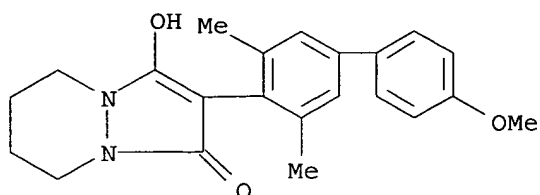
RN 329706-41-4 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 5,6,7,8-tetrahydro-3-hydroxy-2-(2'-methoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)- (9CI) (CA INDEX NAME)

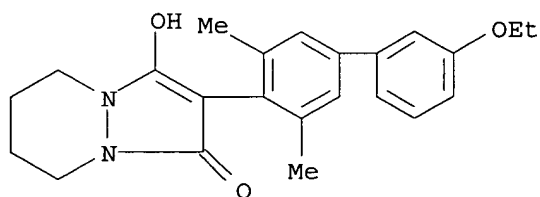


RN 329706-43-6 CAPLUS

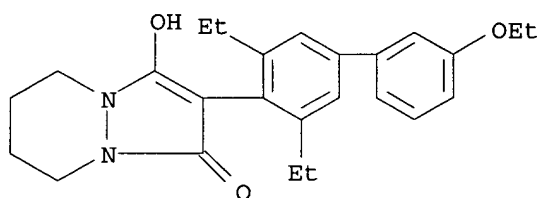
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 5,6,7,8-tetrahydro-3-hydroxy-2-(4'-methoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)- (9CI) (CA INDEX NAME)



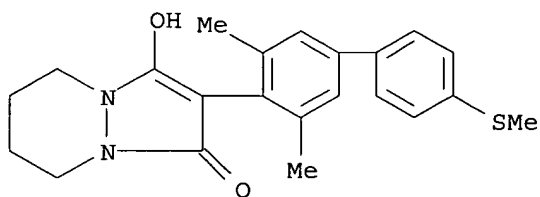
RN 329706-45-8 CAPLUS  
 CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3'-ethoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



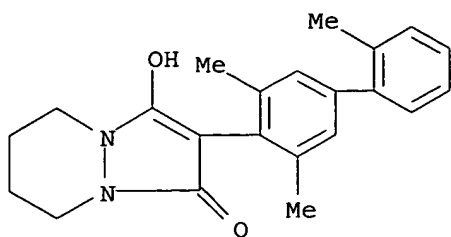
RN 329706-47-0 CAPLUS  
 CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3'-ethoxy-3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



RN 329706-49-2 CAPLUS  
 CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[3,5-dimethyl-4'-(methylthio)[1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)

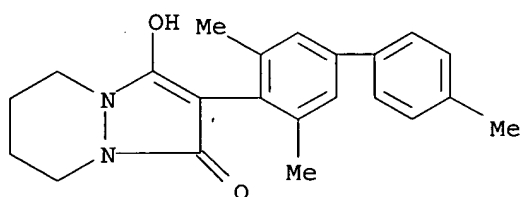


RN 329706-51-6 CAPLUS  
 CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 5,6,7,8-tetrahydro-3-hydroxy-2-(2',3,5-trimethyl[1,1'-biphenyl]-4-yl)- (9CI) (CA INDEX NAME)



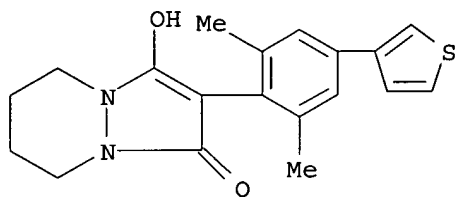
RN 329706-53-8 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 5,6,7,8-tetrahydro-3-hydroxy-2-(3,4',5-trimethyl[1,1'-biphenyl]-4-yl)- (9CI) (CA INDEX NAME)



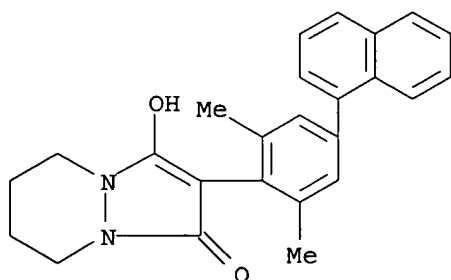
RN 329706-55-0 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[2,6-dimethyl-4-(3-thienyl)phenyl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



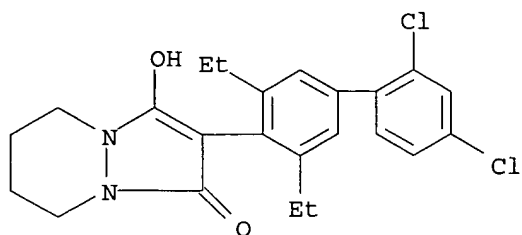
RN 329706-57-2 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[2,6-dimethyl-4-(1-naphthalenyl)phenyl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



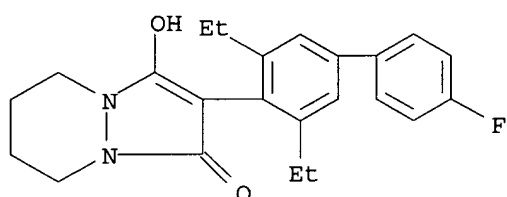
RN 329706-59-4 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2',4'-dichloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



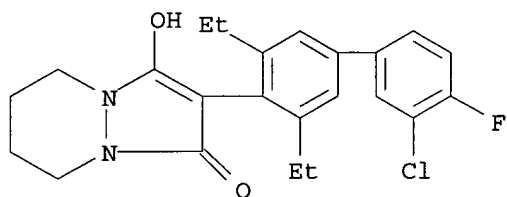
RN 329706-61-8 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3,5-diethyl-4'-fluoro[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



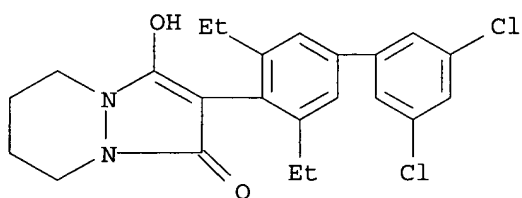
RN 329706-63-0 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3'-chloro-3,5-diethyl-4'-fluoro[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



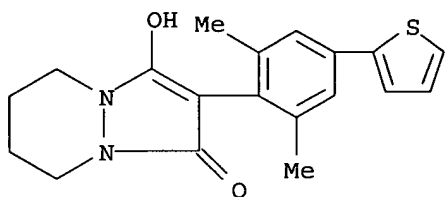
RN 329706-65-2 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3',5'-dichloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



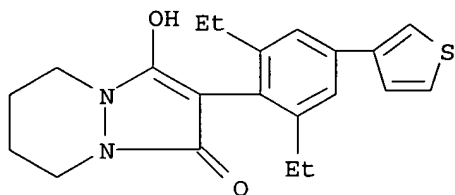
RN 329707-07-5 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[2,6-dimethyl-4-(2-thienyl)phenyl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



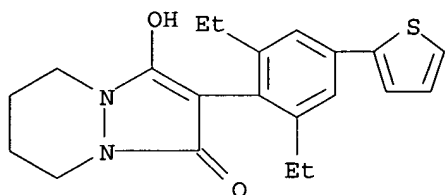
RN 329707-25-7 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[2,6-dimethyl-4-(3-thienyl)phenyl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



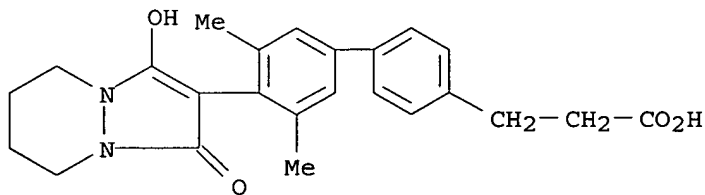
RN 329707-26-8 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[2,6-diethyl-4-(2-thienyl)phenyl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



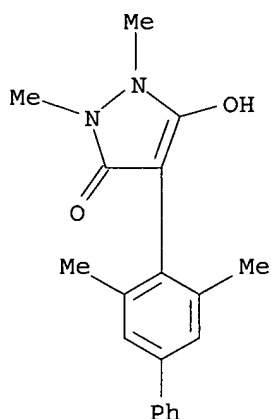
RN 329707-28-0 CAPLUS

CN [1,1'-Biphenyl]-4-propanoic acid, 3',5'-dimethyl-4'-(5,6,7,8-tetrahydro-3-hydroxy-1-oxo-1H-pyrazolo[1,2-a]pyridazin-2-yl)- (9CI) (CA INDEX NAME)



RN 329707-32-6 CAPLUS

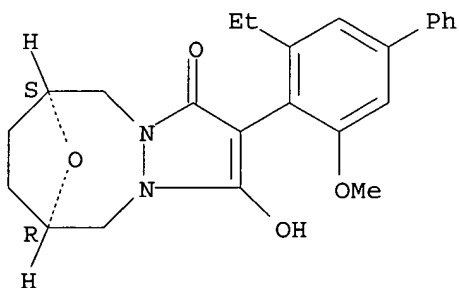
CN 3H-Pyrazol-3-one, 4-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2-dihydro-5-hydroxy-1,2-dimethyl- (9CI) (CA INDEX NAME)



RN 329707-36-0 CAPLUS

CN 6,9-Epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-1-one, 2-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-5,6,7,8,9,10-hexahydro-3-hydroxy-, (6R,9S)- (9CI) (CA INDEX NAME)

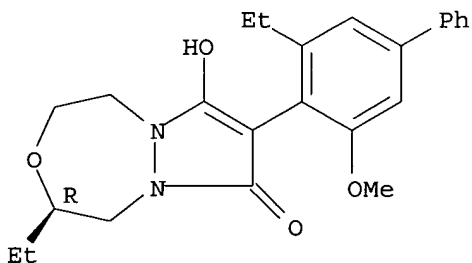
Absolute stereochemistry.



RN 329707-38-2 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 4-ethyl-8-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy-, (4R)- (9CI) (CA INDEX NAME)

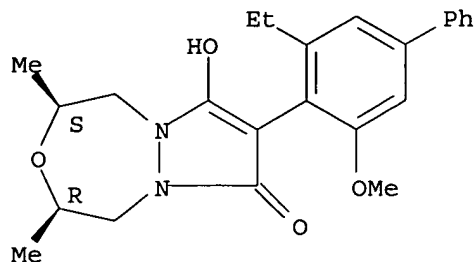
Absolute stereochemistry.



RN 329707-40-6 CAPLUS

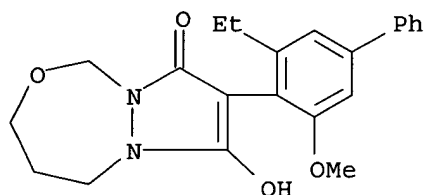
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy-2,4-dimethyl-, (2S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



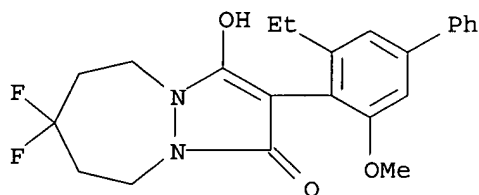
RN 329707-42-8 CAPLUS

CN 1H,3H,9H-Pyrazolo[1,2-c][1,3,4]oxadiazepin-9-one, 8-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-4,5-dihydro-7-hydroxy- (9CI) (CA INDEX NAME)



RN 329707-44-0 CAPLUS

CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-7,7-difluoro-6,7,8,9-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



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FILE 'REGISTRY' ENTERED AT 11:47:10 ON 25 AUG 2005

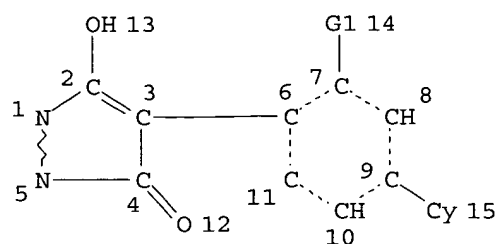
L1 STR  
L2 3 S L1  
L3 72 S L1 FUL

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L4 2 S L3

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L1 STR



VAR G1=X/O/S/AK/NO2/CN  
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 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE  
 L3 72 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 716 ITERATIONS  
 SEARCH TIME: 00.00.02

72 ANSWERS

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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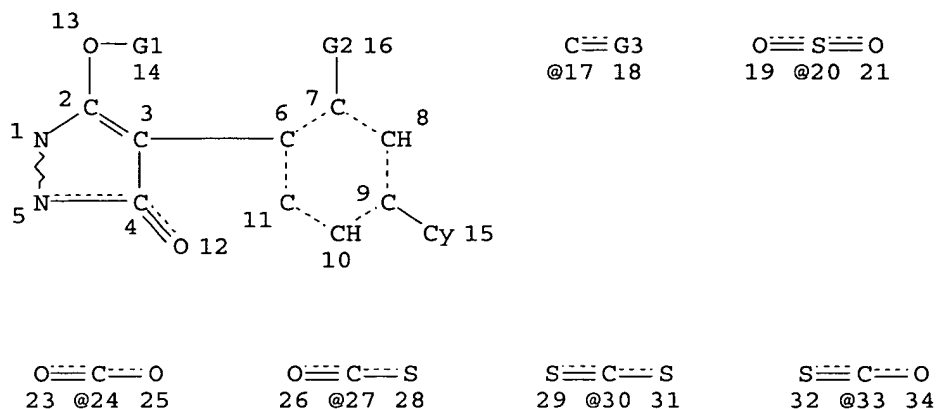
CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 11:50:05 ON 25 AUG 2005



Page 1

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L6 STR



VAR G1=17/20/24/27/30/33/M/P/N

VAR G2=X/O/S/AK/NO2/CN

VAR G3=O/S

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

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GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 33

STEREO ATTRIBUTES: NONE

L8 84 SEA FILE=REGISTRY SSS FUL L6

100.0% PROCESSED 479 ITERATIONS

84 ANSWERS

SEARCH TIME: 00.00.01

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY  
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SESSION  
336.20

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FILE 'BIOSIS' ENTERED AT 11:15:01 ON 25 AUG 2005

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FILE 'EMBASE' ENTERED AT 11:15:01 ON 25 AUG 2005

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FILE 'CAPLUS' ENTERED AT 11:15:01 ON 25 AUG 2005

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L9 0 FILE MEDLINE

L10 0 FILE BIOSIS

L11 0 FILE EMBASE

Prepared by: Mary Hale @2-2507 Rem Bldg 1D86

L12 3 FILE CAPLUS

TOTAL FOR ALL FILES

L13 3 L8

=&gt; d 1-3 ibib abs hitstr

L13 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:1127373 CAPLUS

DOCUMENT NUMBER: 142:56298

TITLE: Preparation of N-heterocyclylphenyl-substituted cyclic  
ketoenols as pesticides and/or herbicides and/or  
microbicides.INVENTOR(S): Fischer, Reiner; Ullmann, Astrid; Bretschneider,  
Thomas; Lehr, Stefan; Kunz, Klaus; Konze, Joerg;  
Malsam, Olga; Drewes, Mark Wilhelm; Feucht, Dieter;  
Kuck, Karl-Heinz; Wachendorff-Neumann, Ulrike; Moradi,  
Wahed Ahmed; Bojack, Guido; Auler, Thomas; Hills,  
Martin; Kehne, Heinz

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 311 pp.

CODEN: PIXXD2

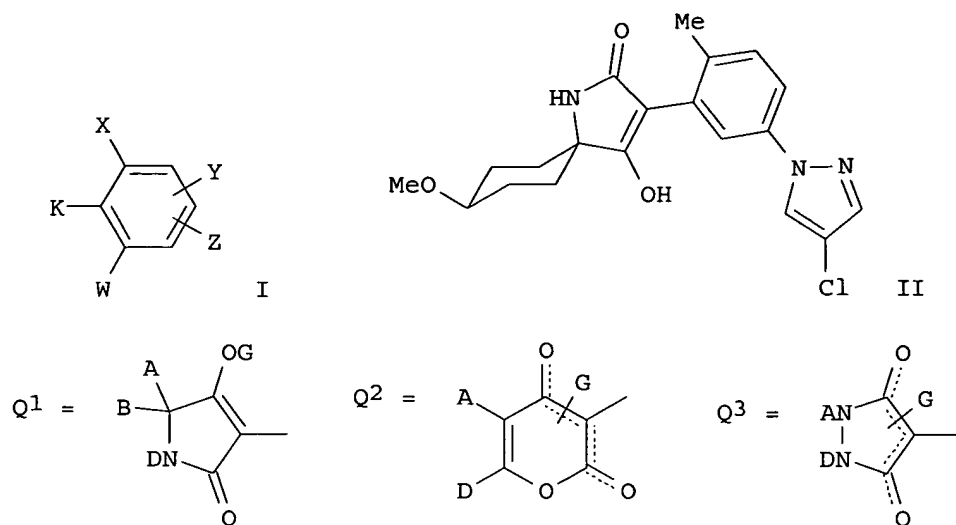
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004111042	A1	20041223	WO 2004-EP6127	20040607
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10326386	A1	20041230	DE 2003-10326386	20030612
PRIORITY APPLN. INFO.:			DE 2003-10326386	A 20030612
OTHER SOURCE(S):	MARPAT	142:56298		
GI				



AB Title compds. [I; X = halo, alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkyl, NO<sub>2</sub>, cyano, (substituted) Ph, PhO, PhS, phenylalkoxy, phenylalkylthio, etc.; W, Y = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, haloalkyl, haloalkoxy, haloalkenyloxy, NO<sub>2</sub>, cyano; Z = (substituted) (unsatd.) heterocyclyl; K = Q<sup>1</sup>-Q<sup>3</sup>; A = H, (halo-substituted) alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, (unsatd.) (substituted) cycloalkyl, etc.; B = H, alkyl, alkoxyalkyl; D = H, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, (unsatd.) cycloalkyl, etc.; AB, AD = atoms to form (heterocyclic) ring; G = COR<sub>1</sub>, SO<sub>2</sub>R<sub>3</sub>, C(:L)MR<sub>2</sub>, etc.; L, M = O, S; R<sub>1</sub> = (halo-substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, alkylthioalkyl, etc.; R<sub>2</sub> = (halo-substituted) alkyl, alkenyl, alkoxyalkyl, polyalkoxyalkyl, etc.; R<sub>3</sub> = (halo-substituted) alkyl, alkoxy, alkylamino, alkylthio, alkenylthio, cycloalkylthio, etc.], were prepared Thus, Me 1-amino-4-methoxycyclohexanecarboxylate hydrochloride was stirred 5 min. with Et<sub>3</sub>N in THF; 2-methyl-5-[1-(4-chloropyrazolyl)]phenylacetic acid (preparation given) was added followed by stirring for 15 min. Et<sub>3</sub>N and POCl<sub>3</sub> were added followed by 30 min. reflux to give 75% amide coupling product. The latter was stirred with KO<sup>t</sup>Me in DMF at 40-60° to give 6% title compound (II). II at 100 ppm gave 85% kill of *Spodoptera frugiperda* on cabbage leaves.

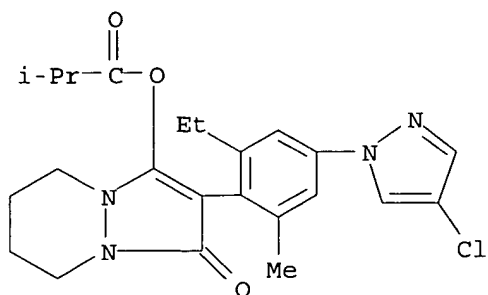
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810694-53-2P 810694-54-3P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N-heterocyclylphenyl-substituted cyclic ketoenols as pesticides and/or herbicides and/or microbicides)

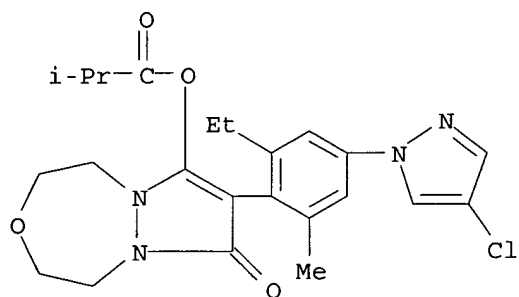
RN 810694-47-4 CAPLUS

CN Propanoic acid, 2-methyl-, 2-[4-(4-chloro-1H-pyrazol-1-yl)-2-ethyl-6-methylphenyl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



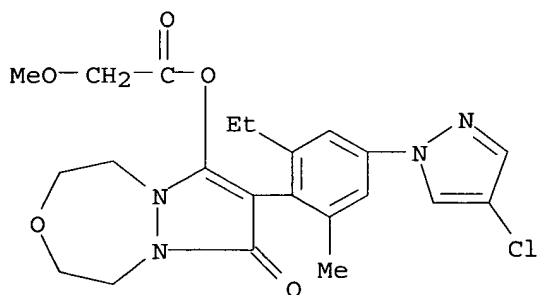
RN 810694-48-5 CAPLUS

CN Propanoic acid, 2-methyl-, 8-[4-(4-chloro-1H-pyrazol-1-yl)-2-ethyl-6-methylphenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



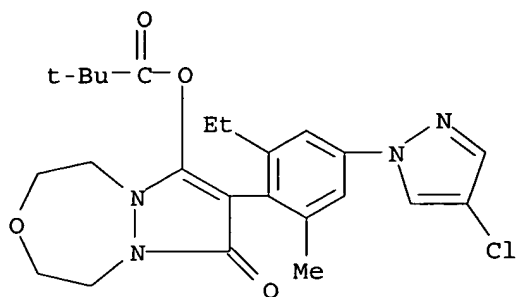
RN 810694-49-6 CAPLUS

CN Acetic acid, methoxy-, 8-[4-(4-chloro-1H-pyrazol-1-yl)-2-ethyl-6-methylphenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



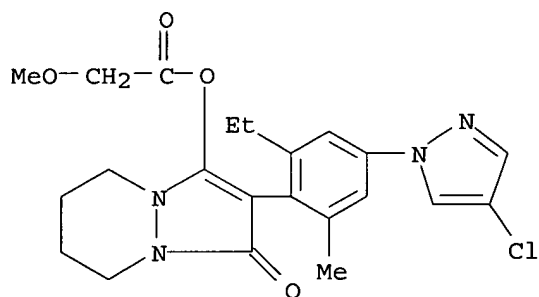
RN 810694-50-9 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[4-(4-chloro-1H-pyrazol-1-yl)-2-ethyl-6-methylphenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



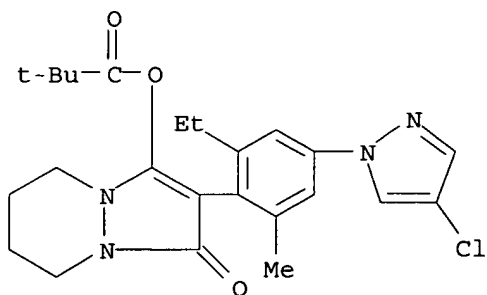
RN 810694-51-0 CAPLUS

CN Acetic acid, methoxy-, 2-[4-(4-chloro-1H-pyrazol-1-yl)-2-ethyl-6-methylphenyl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



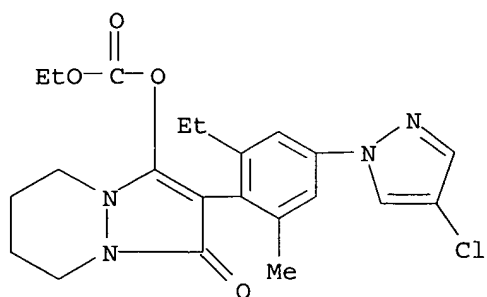
RN 810694-52-1 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[4-(4-chloro-1H-pyrazol-1-yl)-2-ethyl-6-methylphenyl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



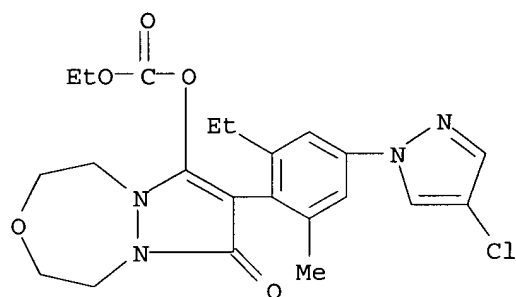
RN 810694-53-2 CAPLUS

CN Carbonic acid, 2-[4-(4-chloro-1H-pyrazol-1-yl)-2-ethyl-6-methylphenyl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ethyl ester (9CI) (CA INDEX NAME)



RN 810694-54-3 CAPLUS

CN Carbonic acid, 8-[4-(4-chloro-1H-pyrazol-1-yl)-2-ethyl-6-methylphenyl]-  
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ethyl  
ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:185731 CAPLUS

DOCUMENT NUMBER: 134:222711

TITLE: Preparation of 3-alkoxy-5-oxo-4-phenylpyrazolines as  
herbicides

INVENTOR(S): Maetzke, Thomas; Wendeborn, Sebastian; Stoller, Andre

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

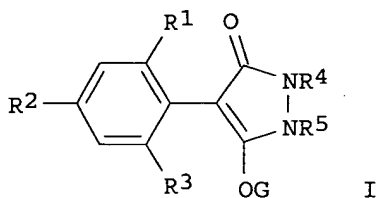
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001017973	A2	20010315	WO 2000-EP8657	20000905
WO 2001017973	A3	20010510		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,  
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,  
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,  
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
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 CA 2382432 AA 20010315 CA 2000-2382432 20000905  
 EP 1230245 A2 20020814 EP 2000-964108 20000905  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL  
 PRIORITY APPLN. INFO.: CH 1999-1644 A 19990907  
 WO 2000-EP8657 W 20000905  
 OTHER SOURCE(S): MARPAT 134:222711  
 GI



AB Title compds. [I; R1, R3 = H, halo, NO<sub>2</sub>, amino, cyano, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, PhCH<sub>2</sub>, etc.; R2 = (substituted) Ph, naphthyl, heteroaryl; R4, R5 = H, alkyl, haloalkyl, hydroxyalkyl, alkenyl, alkynyl, alkoxyalkyl, alkyl, alkylthioalkyl, cycloalkyl, halocycloalkyl, Ph, etc.; R4R5 = atoms to form a (substituted) 5-8 membered ring; G = H, CX<sub>1</sub>R<sub>30</sub>, CX<sub>2</sub>X<sub>3</sub>R<sub>31</sub>, SO<sub>2</sub>R<sub>34</sub>, alkali metal, alkaline earth metal, sulfonium, ammonium, etc.; X<sub>1</sub>, X<sub>2</sub>, X<sub>3</sub> = O, S; R<sub>30</sub>, R<sub>31</sub>, R<sub>34</sub> = H, (substituted) alkyl, cycloalkyl, etc.], were prepared Thus, di-Me (4-bromo-2,6-dimethylphenyl)malonate (preparation from 4-bromo-2,6-dimethylaniline given), hexahydro-1,4,5-oxadiazepine (preparation given), and Et<sub>3</sub>N were heated 4 h at 140° in xylene to give intermediate I (R<sub>1</sub>, R<sub>3</sub> = Me; R<sub>2</sub> = Br; G = H; R<sub>4</sub>R<sub>5</sub> = CH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>). II was converted in several steps to title compound I (R<sub>1</sub>, R<sub>3</sub> = Me; R<sub>2</sub> = Ph; G = COCMe<sub>3</sub>; R<sub>4</sub>R<sub>5</sub> = CH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>). Several I at 500 ppm postemergent gave 70-100% control of Avena, Lolium, Setaria, and Sinapis.

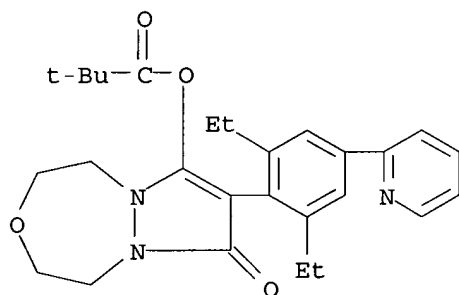
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 329707-23-5P 329707-46-2P 329707-48-4P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of alkoxyphenyloxopyrazolines as herbicides)

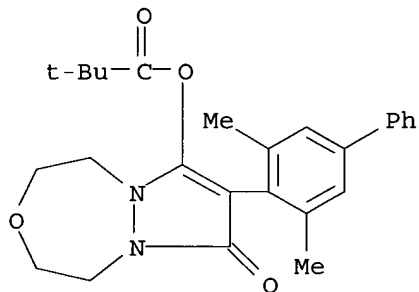
RN 314020-51-4 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2,6-diethyl-4-(2-pyridinyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 329704-62-3 CAPLUS

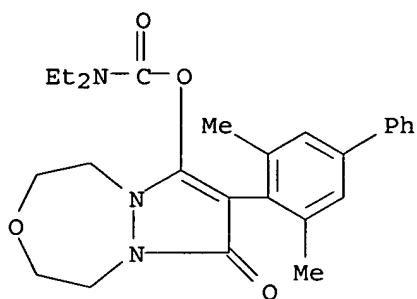
CN Propanoic acid, 2,2-dimethyl-, 8-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 329704-64-5 CAPLUS

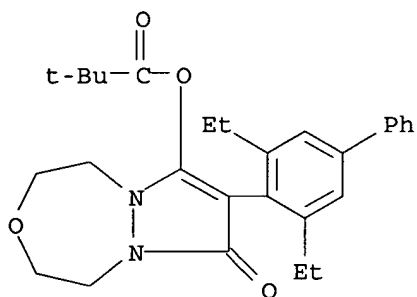
CN Carbamic acid, diethyl-, 8-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)





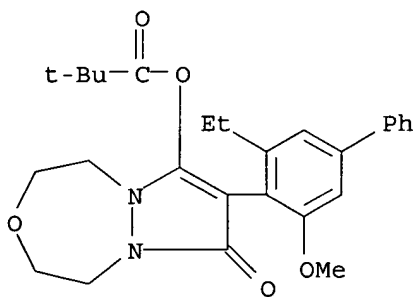
RN 329704-66-7 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(3,5-diethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



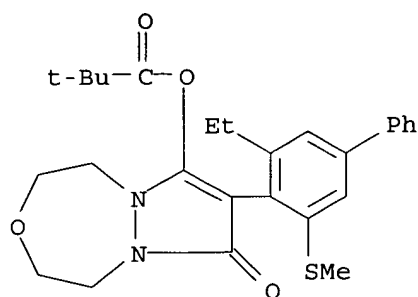
RN 329704-70-3 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



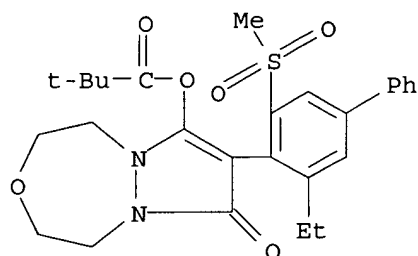
RN 329704-74-7 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[3-ethyl-5-(methylthio)[1,1'-biphenyl]-4-yl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



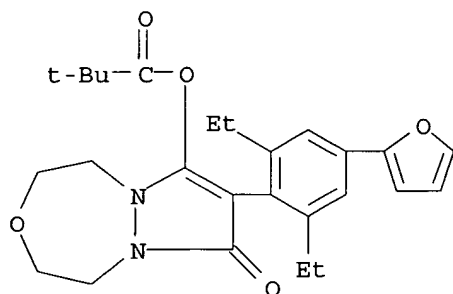
RN 329704-76-9 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[3-ethyl-5-(methylsulfonyl) [1,1'-biphenyl]-4-yl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



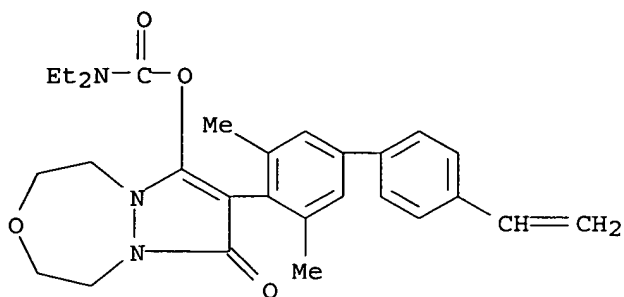
RN 329705-17-1 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2,6-diethyl-4-(2-furanyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



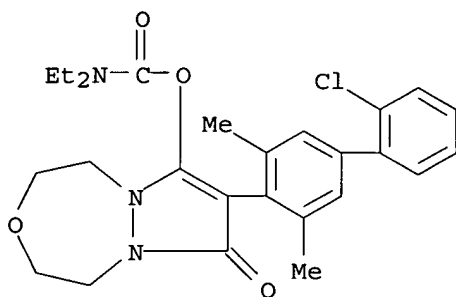
RN 329705-19-3 CAPLUS

CN Carbamic acid, diethyl-, 8-(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



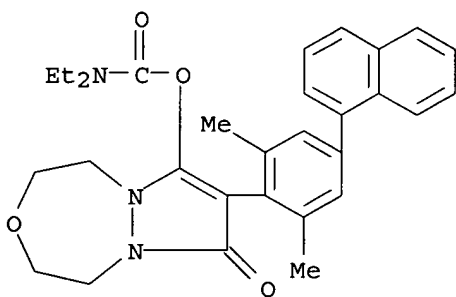
RN 329705-20-6 CAPLUS

CN Carbamic acid, diethyl-, 8-(2'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



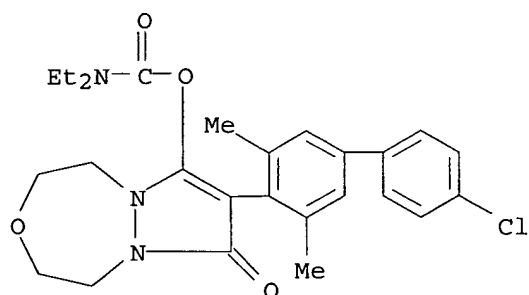
RN 329705-22-8 CAPLUS

CN Carbamic acid, diethyl-, 8-[2,6-dimethyl-4-(1-naphthalenyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



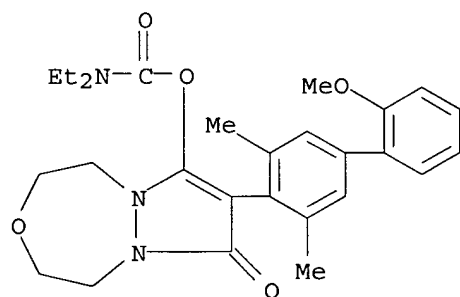
RN 329705-24-0 CAPLUS

CN Carbamic acid, diethyl-, 8-(4'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



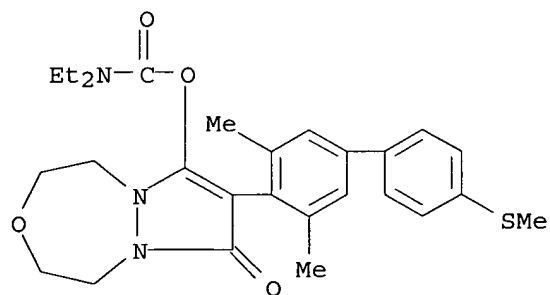
RN 329705-26-2 CAPLUS

CN Carbamic acid, diethyl-, 1,2,4,5-tetrahydro-8-(2'-methoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



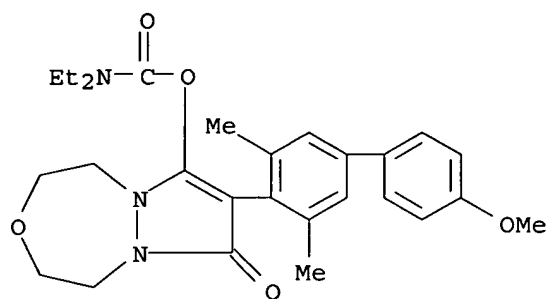
RN 329705-28-4 CAPLUS

CN Carbamic acid, diethyl-, 8-[3,5-dimethyl-4'-(methylthio)[1,1'-biphenyl]-4-yl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



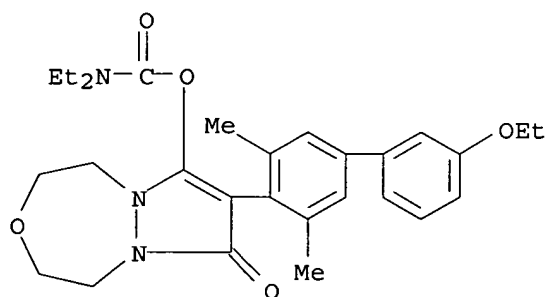
RN 329705-30-8 CAPLUS

CN Carbamic acid, diethyl-, 1,2,4,5-tetrahydro-8-(4'-methoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



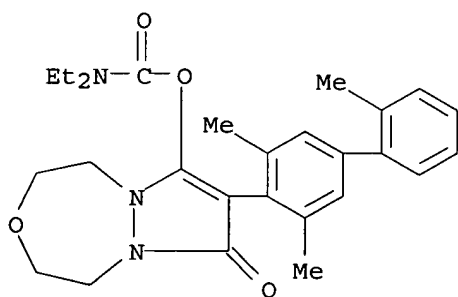
RN 329705-32-0 CAPLUS

CN Carbamic acid, diethyl-, 8-(3'-ethoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



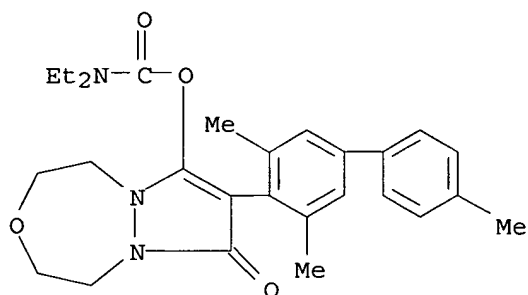
RN 329705-34-2 CAPLUS

CN Carbamic acid, diethyl-, 1,2,4,5-tetrahydro-7-oxo-8-(2',3,5-trimethyl[1,1'-biphenyl]-4-yl)-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



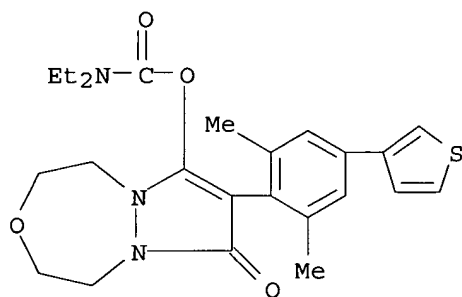
RN 329705-36-4 CAPLUS

CN Carbamic acid, diethyl-, 1,2,4,5-tetrahydro-7-oxo-8-(3,4',5-trimethyl[1,1'-biphenyl]-4-yl)-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



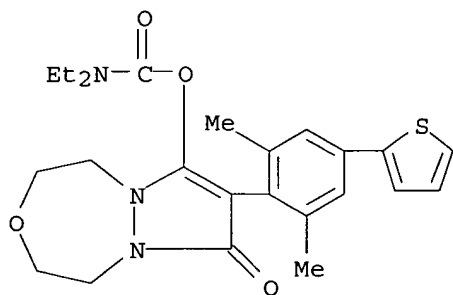
RN 329705-38-6 CAPLUS

CN Carbamic acid, diethyl-, 8-[2,6-dimethyl-4-(3-thienyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



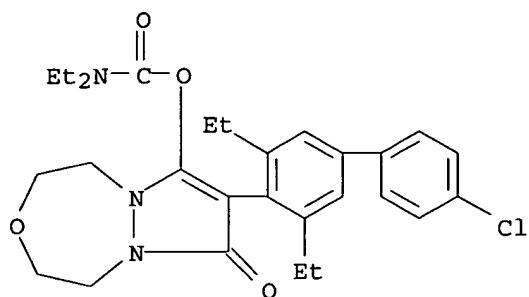
RN 329705-40-0 CAPLUS

CN Carbamic acid, diethyl-, 8-[2,6-dimethyl-4-(2-thienyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



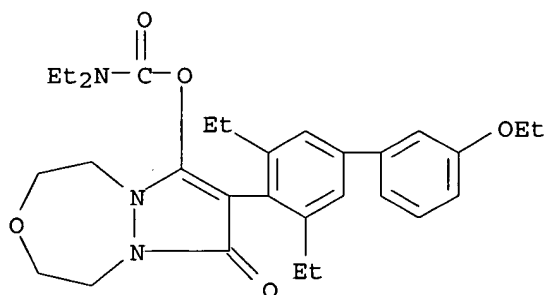
RN 329705-46-6 CAPLUS

CN Carbamic acid, diethyl-, 8-(4'-chloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



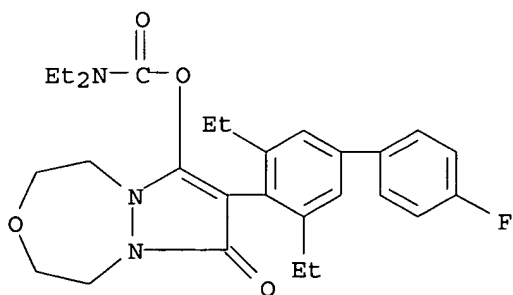
RN 329705-48-8 CAPLUS

CN Carbamic acid, diethyl-, 8-(3'-ethoxy-3,5-diethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



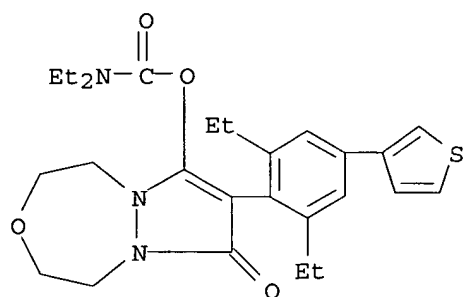
RN 329705-50-2 CAPLUS

CN Carbamic acid, diethyl-, 8-(3,5-diethyl-4'-fluoro[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



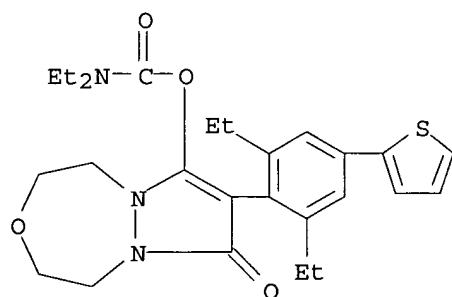
RN 329705-52-4 CAPLUS

CN Carbamic acid, diethyl-, 8-[2,6-diethyl-4-(3-thienyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



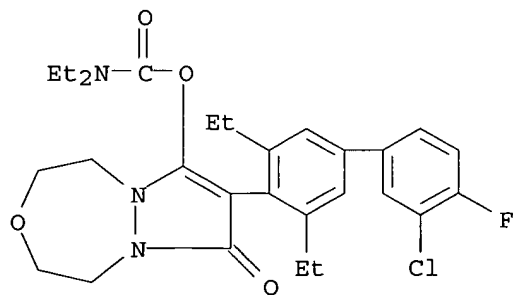
RN 329705-54-6 CAPLUS

CN Carbamic acid, diethyl-, 8-[2,6-diethyl-4-(2-thienyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 329705-56-8 CAPLUS

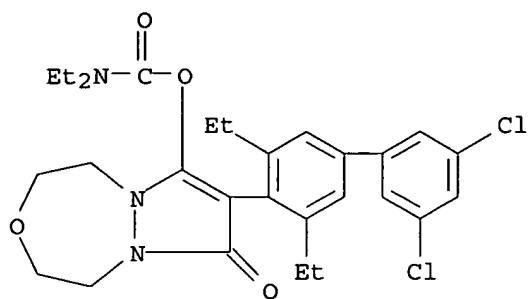
CN Carbamic acid, diethyl-, 8-(3'-chloro-3,5-diethyl-4'-fluoro[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 329705-58-0 CAPLUS

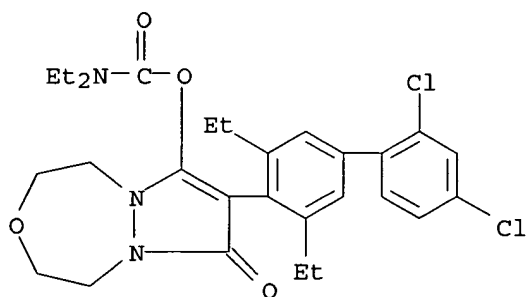
CN Carbamic acid, diethyl-, 8-(3',5'-dichloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)





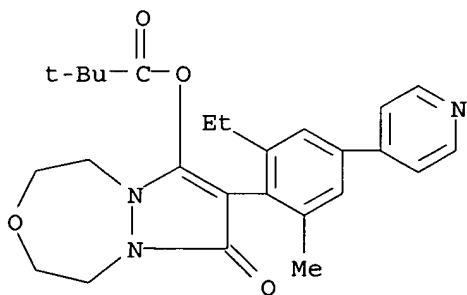
RN 329705-60-4 CAPLUS

CN Carbamic acid, diethyl-, 8-(2',4'-dichloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



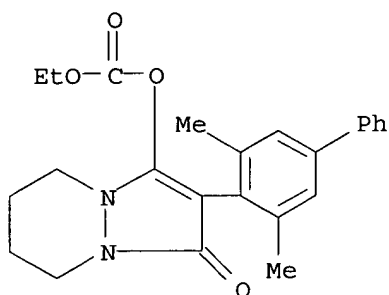
RN 329705-64-8 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2-ethyl-6-methyl-4-(4-pyridinyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



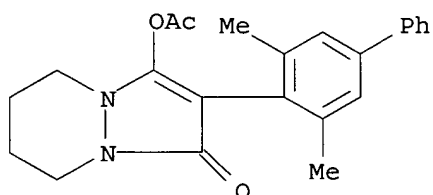
RN 329705-79-5 CAPLUS

CN Carbonic acid, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ethyl ester (9CI) (CA INDEX NAME)



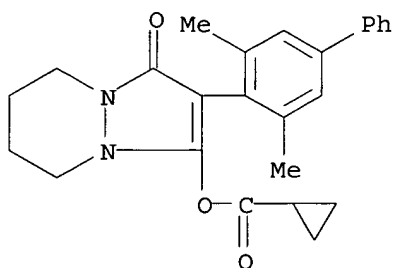
RN 329705-80-8 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 3-(acetyloxy)-2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



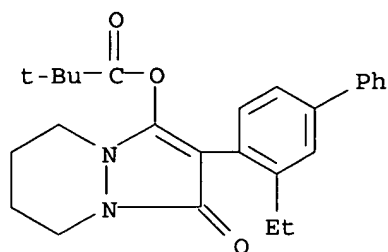
RN 329705-82-0 CAPLUS

CN Cyclopropanecarboxylic acid, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



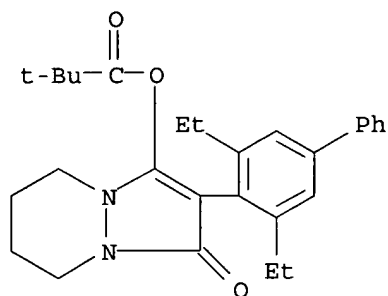
RN 329705-86-4 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(3-ethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



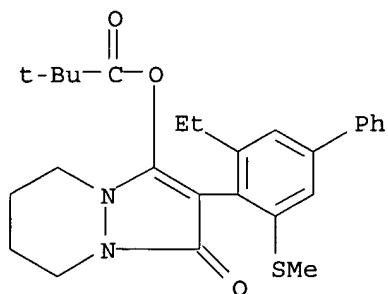
RN 329705-90-0 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



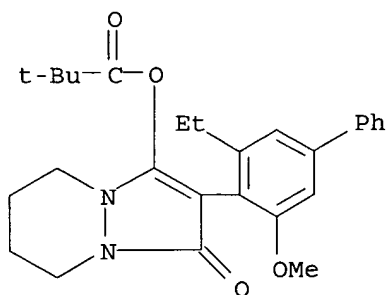
RN 329705-94-4 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[3-ethyl-5-(methylthio)[1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



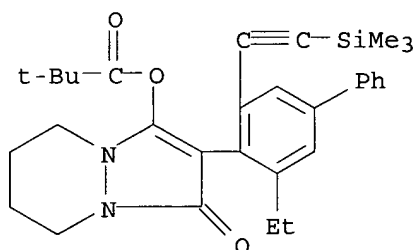
RN 329705-98-8 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



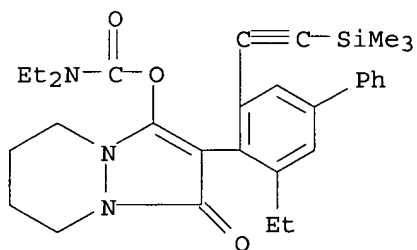
RN 329706-02-7 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[3-ethyl-5-[(trimethylsilyl)ethynyl][1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



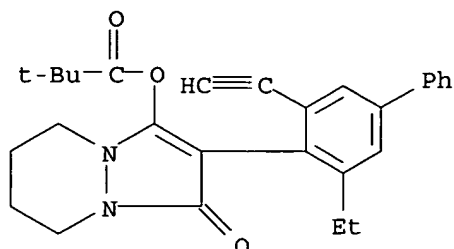
RN 329706-04-9 CAPLUS

CN Carbamic acid, diethyl-, 2-[3-ethyl-5-[(trimethylsilyl)ethynyl][1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



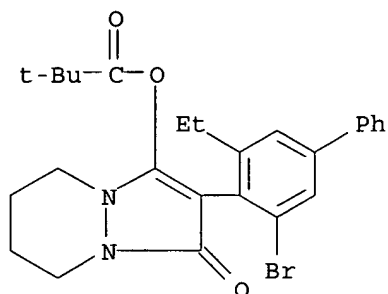
RN 329706-08-3 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(3-ethyl-5-ethynyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



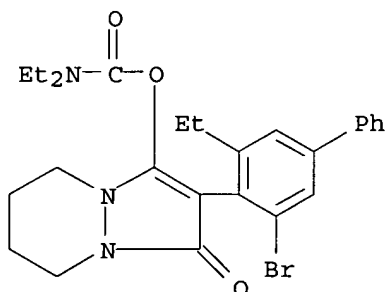
RN 329706-11-8 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(3-bromo-5-ethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



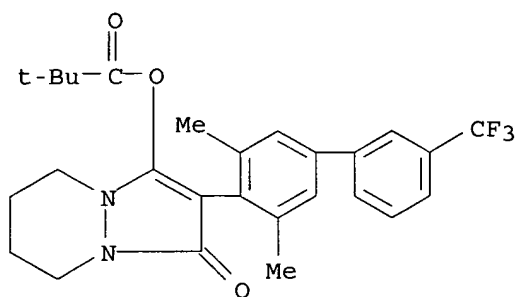
RN 329706-13-0 CAPLUS

CN Carbamic acid, diethyl-, 2-(3-bromo-5-ethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



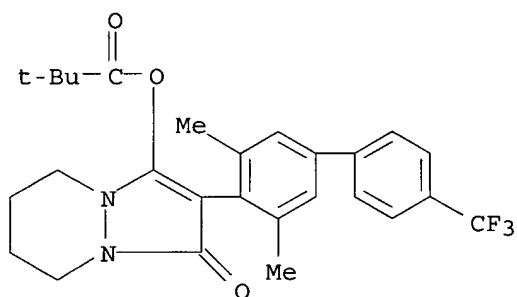
RN 329706-19-6 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[3,5-dimethyl-3'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



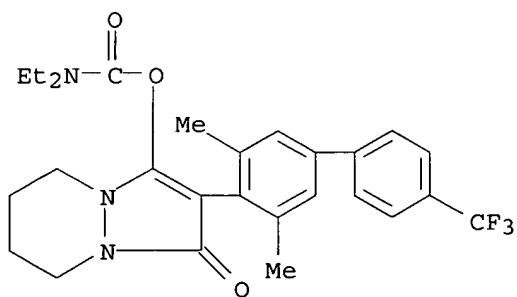
RN 329706-23-2 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[3,5-dimethyl-4'-(trifluoromethyl) [1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



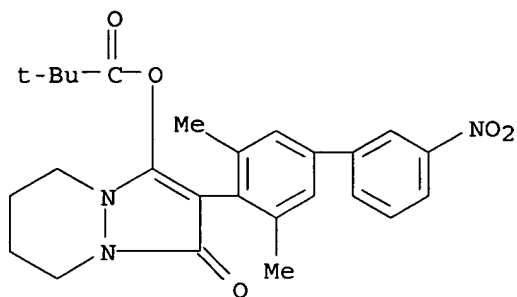
RN 329706-25-4 CAPLUS

CN Carbamic acid, diethyl-, 2-[3,5-dimethyl-4'-(trifluoromethyl) [1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



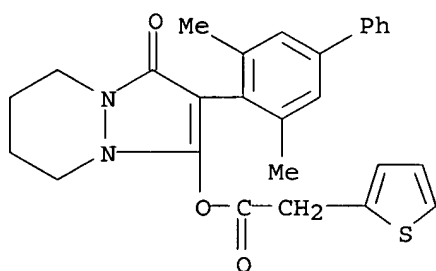
RN 329706-29-8 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(3,5-dimethyl-3'-nitro[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



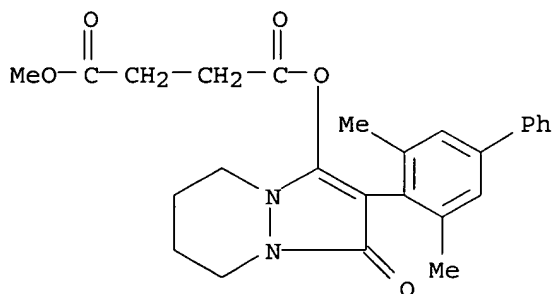
RN 329706-68-5 CAPLUS

CN 2-Thiopheneacetic acid, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



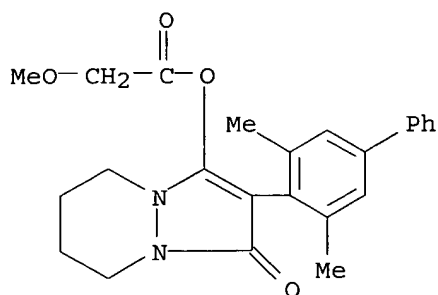
RN 329706-70-9 CAPLUS

CN Butanedioic acid, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl methyl ester (9CI) (CA INDEX NAME)

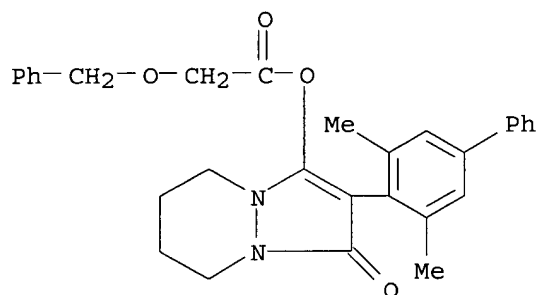


RN 329706-72-1 CAPLUS

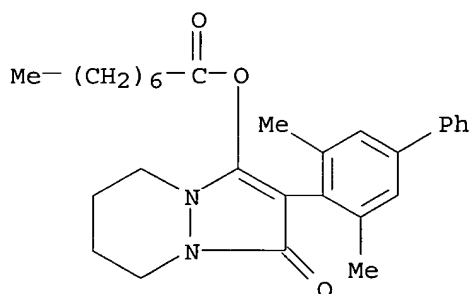
CN Acetic acid, methoxy-, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329706-74-3 CAPLUS  
 CN Acetic acid, (phenylmethoxy)-, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

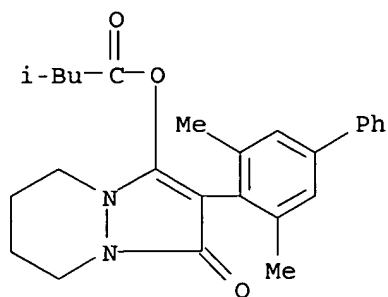


RN 329706-76-5 CAPLUS  
 CN Octanoic acid, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



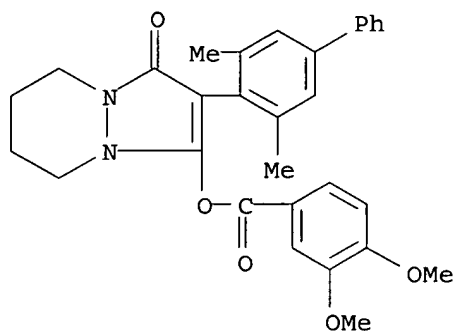
RN 329706-78-7 CAPLUS  
 CN Butanoic acid, 3-methyl-, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)





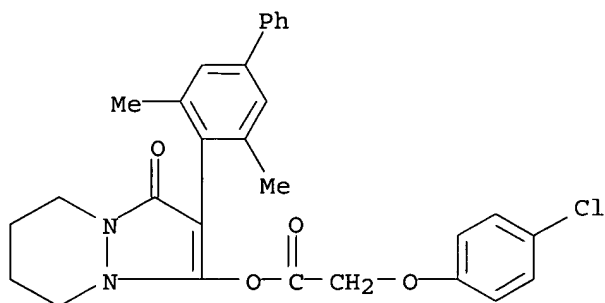
RN 329706-80-1 CAPLUS

CN Benzoic acid, 3,4-dimethoxy-, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



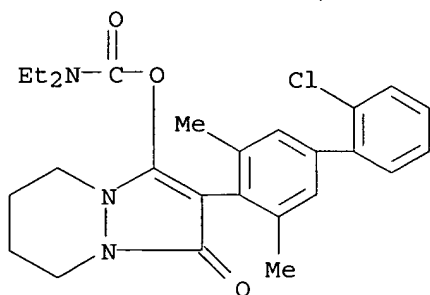
RN 329706-82-3 CAPLUS

CN Acetic acid, (4-chlorophenoxy)-, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



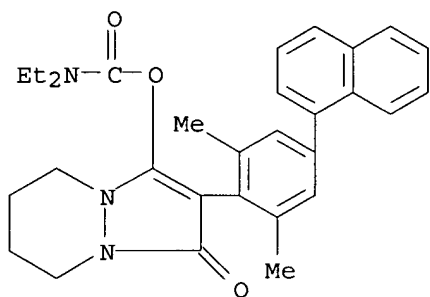
RN 329706-84-5 CAPLUS

CN Carbamic acid, diethyl-, 2-(2'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



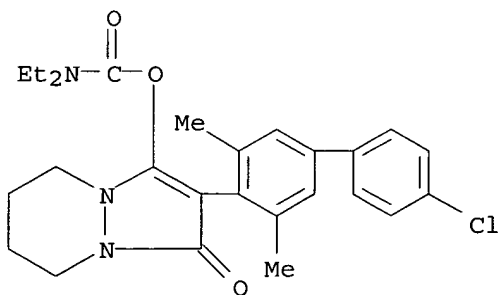
RN 329706-86-7 CAPLUS

CN Carbamic acid, diethyl-, 2-[2,6-dimethyl-4-(1-naphthalenyl)phenyl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



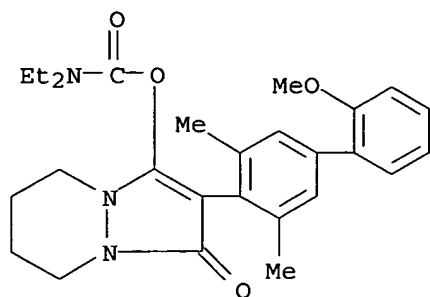
RN 329706-88-9 CAPLUS

CN Carbamic acid, diethyl-, 2-(4'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



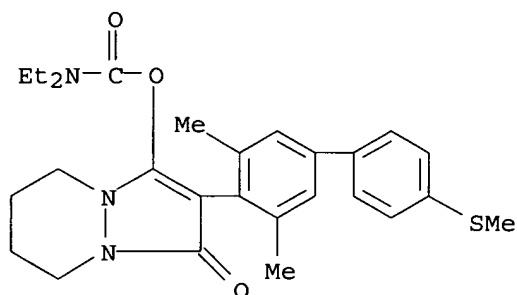
RN 329706-89-0 CAPLUS

CN Carbamic acid, diethyl-, 5,6,7,8-tetrahydro-2-(2'-methoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



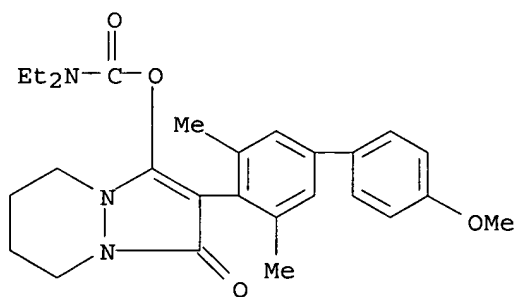
RN 329706-91-4 CAPLUS

CN Carbamic acid, diethyl-, 2-[3,5-dimethyl-4'-(methylthio) [1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



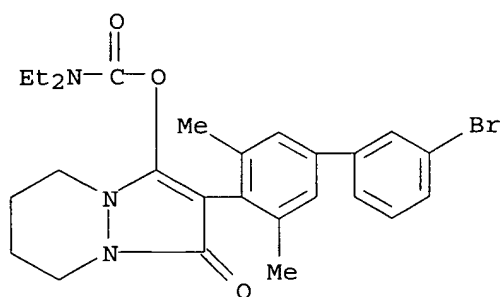
RN 329706-93-6 CAPLUS

CN Carbamic acid, diethyl-, 5,6,7,8-tetrahydro-2-(4'-methoxy-3,5-dimethyl [1,1'-biphenyl]-4-yl)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

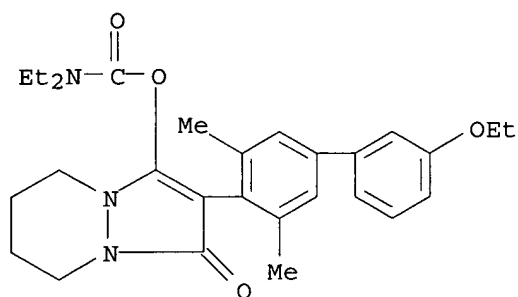


RN 329706-95-8 CAPLUS

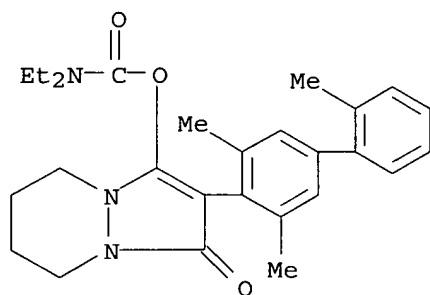
CN Carbamic acid, diethyl-, 2-(3'-bromo-3,5-dimethyl [1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



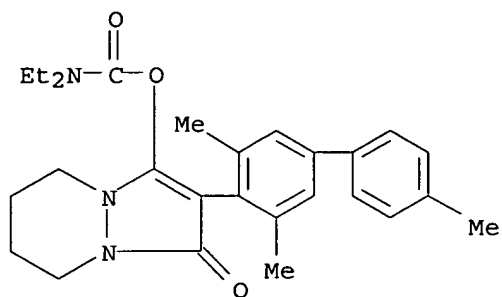
RN 329706-97-0 CAPLUS  
 CN Carbamic acid, diethyl-, 2-(3'-ethoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329706-99-2 CAPLUS  
 CN Carbamic acid, diethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2',3,5-trimethyl[1,1'-biphenyl]-4-yl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

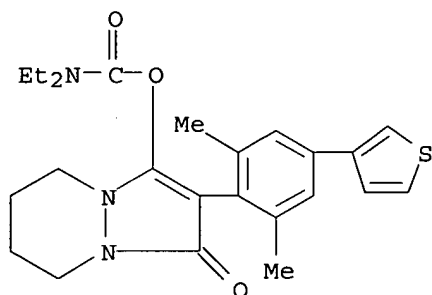


RN 329707-01-9 CAPLUS  
 CN Carbamic acid, diethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(3,4',5-trimethyl[1,1'-biphenyl]-4-yl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



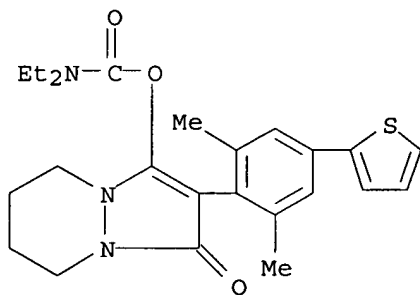
RN 329707-03-1 CAPLUS

CN Carbamic acid, diethyl-, 2-[2,6-dimethyl-4-(3-thienyl)phenyl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



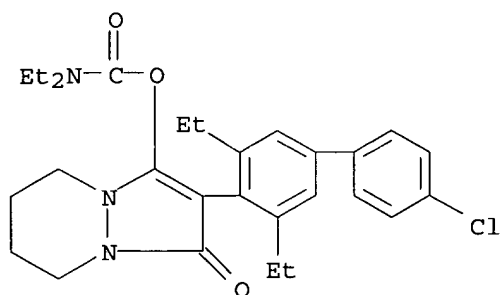
RN 329707-05-3 CAPLUS

CN Carbamic acid, diethyl-, 2-[2,6-dimethyl-4-(2-thienyl)phenyl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



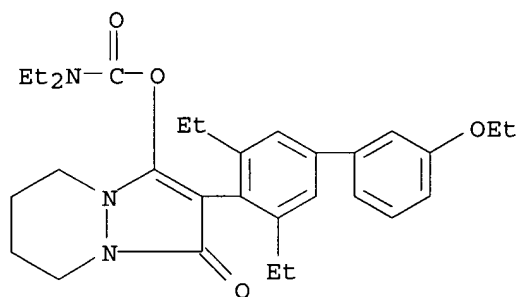
RN 329707-09-7 CAPLUS

CN Carbamic acid, diethyl-, 2-(4'-chloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



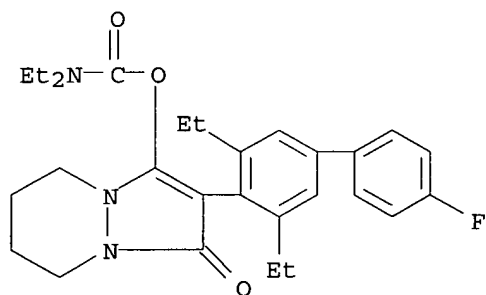
RN 329707-11-1 CAPLUS

CN Carbamic acid, diethyl-, 2-(3'-ethoxy-3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



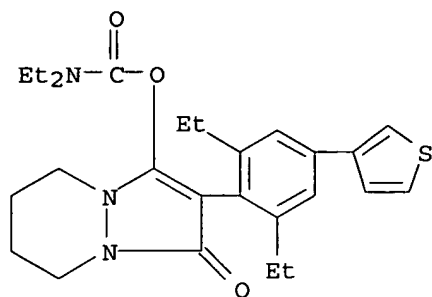
RN 329707-13-3 CAPLUS

CN Carbamic acid, diethyl-, 2-(3,5-diethyl-4'-fluoro[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



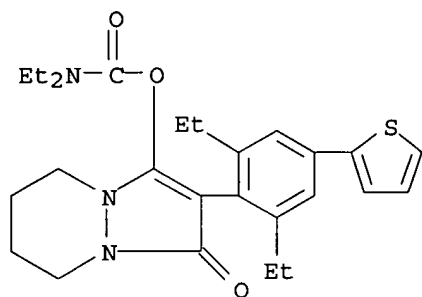
RN 329707-15-5 CAPLUS

CN Carbamic acid, diethyl-, 2-[2,6-diethyl-4-(3-thienyl)phenyl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



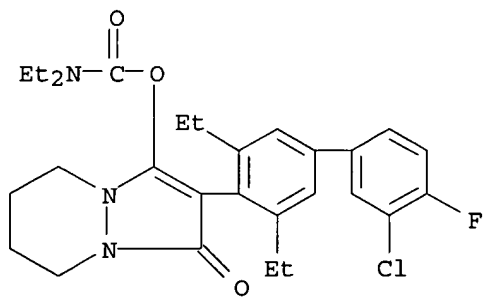
RN 329707-17-7 CAPLUS

CN Carbamic acid, diethyl-, 2-[2,6-diethyl-4-(2-thienyl)phenyl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



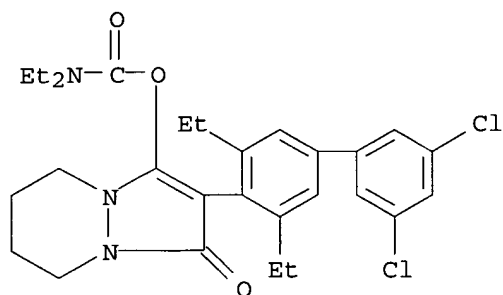
RN 329707-19-9 CAPLUS

CN Carbamic acid, diethyl-, 2-(3'-chloro-3,5-diethyl-4'-fluoro[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



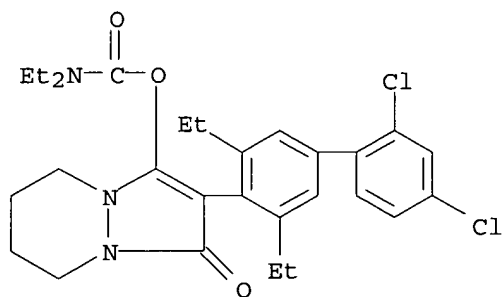
RN 329707-21-3 CAPLUS

CN Carbamic acid, diethyl-, 2-(3',5'-dichloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



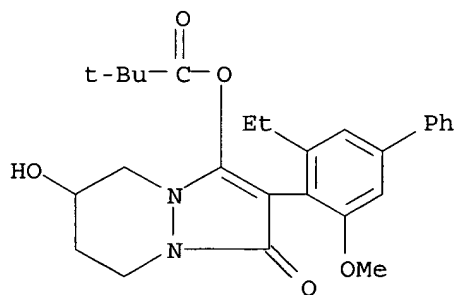
RN 329707-23-5 CAPLUS

CN Carbamic acid, diethyl-, 2-(2',4'-dichloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI)  
(CA INDEX NAME)



RN 329707-46-2 CAPLUS

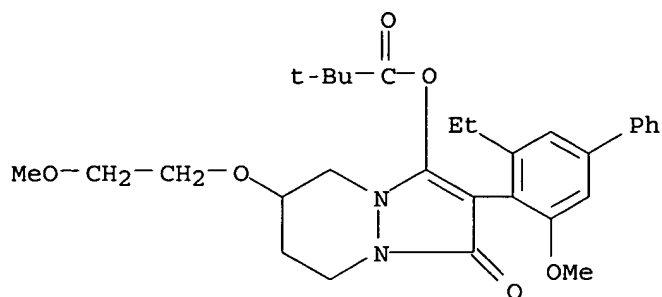
CN Propanoic acid, 2,2-dimethyl-, 2-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-6-hydroxy-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329707-48-4 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-6-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)





L13 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:911362 CAPLUS

DOCUMENT NUMBER: 134:56699

TITLE: Process for the preparation of herbicidally active 3-hydroxy-4-aryl-5-oxopyrazoline derivatives

INVENTOR(S): Maetzke, Thomas; Mutti, Rene; Szczepanski, Henry

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.

SOURCE: PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

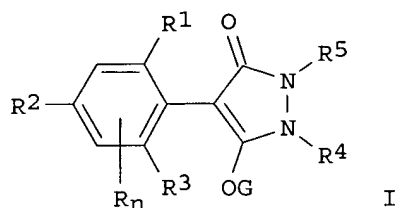
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000078881	A2	20001228	WO 2000-EP5476	20000614
WO 2000078881	A3	20010517		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2374279	AA	20001228	CA 2000-2374279	20000614
EP 1183317	A2	20020306	EP 2000-942071	20000614
EP 1183317	B1	20030917		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000011702	A	20020326	BR 2000-11702	20000614
JP 2003503317	T2	20030128	JP 2001-505631	20000614
AU 765302	B2	20030911	AU 2000-56821	20000614
AT 250113	E	20031015	AT 2000-942071	20000614
RU 2244715	C2	20050120	RU 2002-100643	20000614
US 6552187	B1	20030422	US 2001-980240	20011129
ZA 2001010254	A	20030901	ZA 2001-10254	20011213
US 2004198797	A1	20041007	US 2003-366212	20030213
PRIORITY APPLN. INFO.:				
			CH 1999-1122	A 19990616
			WO 2000-EP5476	W 20000614
			US 2001-980240	A3 20011129

OTHER SOURCE(S): CASREACT 134:56699; MARPAT 134:56699

GI



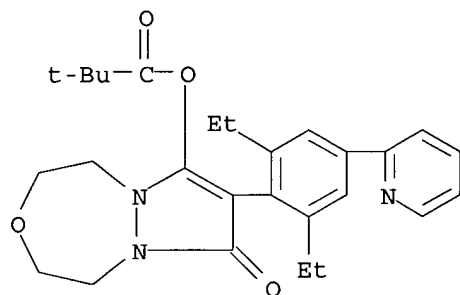
AB The title compds. I [R = halo, alkyl, alkenyl, etc.; R together with R1, R2, and R3 forms a bridge; R2 = aryl; R4, R5 = H, alkyl, haloalkyl, etc.; n = 0-2] were prepared by reaction of arylmalonic acid diamides or arylmalonic acid monoamides with hydrazine derivs. E.g., 8-(2,6-diethyl-4-methylphenyl)tetrahydropyrazolo[1,2-d][1,4,5]oxadiazepine-7,9-dione was prepared

IT **314020-51-4P 314020-52-5P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of 3-hydroxy-4-aryl-5-oxopyrazoline derivs.)

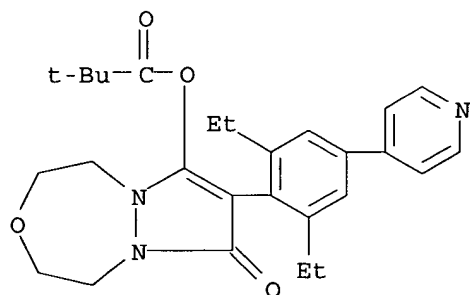
RN 314020-51-4 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2,6-diethyl-4-(2-pyridinyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester  
(9CI) (CA INDEX NAME)



RN 314020-52-5 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2,6-diethyl-4-(4-pyridinyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester  
(9CI) (CA INDEX NAME)



=> s lieb ?/au

L14 786 FILE MEDLINE  
L15 790 FILE BIOSIS  
L16 599 FILE EMBASE  
L17 1492 FILE CAPLUS

TOTAL FOR ALL FILES

L18 3667 LIEB ?/AU

=> s lieb f?/au;s fischer r?/au

L19 16 FILE MEDLINE  
L20 50 FILE BIOSIS  
L21 9 FILE EMBASE  
L22 122 FILE CAPLUS

TOTAL FOR ALL FILES

L23 197 LIEB F?/AU

L24 1820 FILE MEDLINE  
L25 1846 FILE BIOSIS  
L26 1206 FILE EMBASE  
L27 3407 FILE CAPLUS

TOTAL FOR ALL FILES

L28 8279 FISCHER R?/AU

=> s l23 and l28

L29 0 FILE MEDLINE  
L30 21 FILE BIOSIS  
L31 1 FILE EMBASE  
L32 22 FILE CAPLUS

TOTAL FOR ALL FILES

L33 44 L23 AND L28

=> s l33 not l13

L34 0 FILE MEDLINE  
L35 21 FILE BIOSIS  
L36 1 FILE EMBASE  
L37 22 FILE CAPLUS

TOTAL FOR ALL FILES

L38 44 L33 NOT L13

=> dup rem l38

PROCESSING COMPLETED FOR L38

L39 43 DUP REM L38 (1 DUPLICATE REMOVED)

=> d 1-43 ibib abs

L39 ANSWER 1 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2004:462999 BIOSIS  
DOCUMENT NUMBER: PREV200400465946  
TITLE: Arylphenyl-substituted cyclic ketoenols.  
AUTHOR(S): Lieb, Folker [Inventor, Reprint Author];  
Fischer, Reiner [Inventor]; Graff, Alan [Inventor];

Schneider, Udo [Inventor]; Bretshneider, Thomas [Inventor]; Erdelen, Christoph [Inventor]; Andersch, Wolfram [Inventor]; Drewes, Mark Wilhelm [Inventor]; Dollinger, Markus [Inventor]; Wetcholowsky, Ingo [Inventor]; Myers, Randy Allen [Inventor]

CORPORATE SOURCE: Leverkusen, Germany  
 ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany  
 PATENT INFORMATION: US 6806264 20041019  
 SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (Oct 19 2004) Vol. 1287, No. 3.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
 ISSN: 0098-1133 (ISSN print).  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 ENTRY DATE: Entered STN: 1 Dec 2004  
 Last Updated on STN: 1 Dec 2004

AB The present invention relates to novel arylphenyl-substituted cyclic ketoenols of the formula (I) ##STR1## in which X represents halogen, alkyl, alkoxy, alkenyloxy, alkylthio, alkylsulphinyl, alkylsulphonyl, halogenoalkyl, halogenoalkoxy, halogenoalkenyloxy, nitro, cyano or in each case optionally substituted phenyl, phenoxy, phenylthio, phenylalkoxy or phenylalkylthio, Y represents in each case optionally substituted cycloalkyl, aryl or hetaryl, W and Y independently of one another each represent hydrogen, halogen, alkyl, alkoxy, alkenyloxy, halogenoalkyl, halogenoalkoxy, halogenoalkenyloxy, nitro or cyano, CKE represents one of the groups ##STR2## in which A, B, D, G and Q1 to Q6 are each as defined in the description, to a plurality of processes for their preparation and to their use as pesticides and herbicides.

L39 ANSWER 2 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2004:323442 BIOSIS  
 DOCUMENT NUMBER: PREV200400325243  
 TITLE: Dialkyl-halogenophenyl-substituted ketoenols.  
 AUTHOR(S): **Fischer, Reiner** [Inventor, Reprint Author]; Bretschneider, Thomas [Inventor]; Hagemann, Hermann [Inventor]; **Lieb, Folker** [Inventor]; Ruther, Michael [Inventor]; Widdig, Arno [Inventor]; Dahmen, Peter [Inventor]; Dollinger, Markus [Inventor]; Erdelen, Christoph [Inventor]; Santel, Hans-Joachim [Inventor]; Wachendorff-Neumann, Ulrike [Inventor]; Graff, Alan [Inventor]; Andersch, Wolfram [Inventor]

CORPORATE SOURCE: Monheim, Germany  
 ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany  
 PATENT INFORMATION: US 6759548 20040706  
 SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (July 6 2004) Vol. 1284, No. 1.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
 ISSN: 0098-1133 (ISSN print).  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 ENTRY DATE: Entered STN: 21 Jul 2004  
 Last Updated on STN: 21 Jul 2004

AB The present invention relates to new compounds of the formula (I) ##STR1## in which X represents alkyl, Y represents halogen or alkyl and Z represents halogen or alkyl, with the proviso that one of the radicals Y and Z always represents halogen and the other alkyl, Het represents one of the groups ##STR2## in which A, B, D and G have the meanings given in the description, a plurality of processes for their preparation and their use as pesticides and herbicides.

L39 ANSWER 3 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2004:249589 BIOSIS  
DOCUMENT NUMBER: PREV200400249703  
TITLE: Arylphenyl-substituted cyclic ketoenols.  
AUTHOR(S): **Lieb, Folker** [Inventor, Reprint Author];  
**Fischer, Reiner** [Inventor]; Graff, Alan [Inventor];  
Schneider, Udo [Inventor]; Bretschneider, Thomas  
[Inventor]; Erdelen, Christoph [Inventor]; Andersch,  
Wolfram [Inventor]; Drewes, Mark-Wilhelm [Inventor];  
Dollinger, Markus [Inventor]; Wetcholowsky, Ingo  
[Inventor]; Myers, Randy Allen [Inventor]  
CORPORATE SOURCE: Leverkusen, Germany  
ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany  
PATENT INFORMATION: US 6716832 20040406  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Apr 6 2004) Vol. 1281, No. 1.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 6 May 2004  
Last Updated on STN: 6 May 2004

AB The present invention relates to novel arylphenyl-substituted cyclic ketoenols of the formula (I): ##STR1## in which X represents halogen, alkyl, alkoxy, alkenyloxy, alkylthio, alkylsulphinyl, alkylsulphonyl, halogenalkyl, halogeno-alkoxy, halogenoalkenyloxy, nitro, cyano or in each case optionally substituted phenyl, phenoxy, phenylthio, phenyl-alkoxy or phenylalkylthio, Y represents in each case optionally substituted cycloalkyl, aryl or hetaryl, Z represents hydrogen, halogen, alkyl, alkoxy, alkenyloxy, halogenoalkyl, halogenoalkoxy, halogenoalkenyloxy, nitro or cyano, CKE represents one of the groups: ##STR2## in which A, B, D, G and Q1 to Q6 are each as defined in the description, to a plurality of processes for their preparation and to their use as pesticides and herbicides.

L39 ANSWER 4 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2004:165112 BIOSIS  
DOCUMENT NUMBER: PREV200400168969  
TITLE: Arylphenyl-substituted cyclic ketoenols.  
AUTHOR(S): **Lieb, Folker** [Inventor, Reprint Author];  
**Fischer, Reiner** [Inventor]; Graff, Alan [Inventor];  
Schneider, Udo [Inventor]; Bretshneider, Thomas [Inventor];  
Erdelen, Christoph [Inventor]; Andersch, Wolfram  
[Inventor]; Drewes, Mark Wilhelm [Inventor]; Dollinger,  
Markus [Inventor]; Wetcholowsky, Ingo [Inventor]; Myers,  
Randy Allen [Inventor]  
CORPORATE SOURCE: Leverkusen, Germany  
ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany  
PATENT INFORMATION: US 6693092 20040217  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Feb 17 2004) Vol. 1279, No. 3.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 24 Mar 2004  
Last Updated on STN: 24 Mar 2004

AB The present invention relates to novel arylphenyl-substituted cyclic ketoenols of the formula (I) ##STR1## in which X represents halogen, alkyl, alkoxy, alkenyloxy, alkylthio, alkylsulphinyl, alkylsulphonyl,

halogenoalkyl, halogenoalkoxy, halogenoalkenyloxy, nitro, cyano or in each case optionally substituted phenyl, phenoxy, phenylthio, phenylalkoxy or phenylalkylthio, Y represents in each case optionally substituted cycloalkyl, aryl or hetaryl, W and Y independently of one another each represent hydrogen, halogen, alkyl, alkoxy, alkenyloxy, halogenoalkyl, halogenoalkoxy, halogenoalkenyloxy, nitro or cyano, CKE represents one of the groups ##STR2## in which A, B, D, G and Q1 to Q6 are each as defined in the description, to a plurality of processes for their preparation and to their use as pesticides and herbicides.

L39 ANSWER 5 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
 ACCESSION NUMBER: 2003:378484 BIOSIS  
 DOCUMENT NUMBER: PREV200300378484  
 TITLE: 2-and 2,5-substituted phenylketoenols.  
 AUTHOR(S): **Lieb, Folker** [Inventor, Reprint Author];  
**Fischer, Reiner** [Inventor]; Bretschneider, Thomas  
 [Inventor]; Ruther, Michael [Inventor]; Graff, Alan  
 [Inventor]; Schneider, Udo [Inventor]; Erdelen, Christoph  
 [Inventor]; Wachendorff-Neumann, Ulrike [Inventor];  
 Andersch, Wolfram [Inventor]; Turberg, Andreas [Inventor]  
 CORPORATE SOURCE: Leverkusen, Germany  
 ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany  
 PATENT INFORMATION: US 6596873 20030722  
 SOURCE: Official Gazette of the United States Patent and Trademark  
 Office Patents, (July 22 2003) Vol. 1272, No. 4.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
 ISSN: 0098-1133 (ISSN print).  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 ENTRY DATE: Entered STN: 13 Aug 2003  
 Last Updated on STN: 13 Aug 2003  
 AB The invention relates to novel phenyl-substituted cyclic ketoenols of the  
 formula (I) ##STR1## in which Het represents one of the groups ##STR2## in  
 which A, B, D, G, X and Z are each as defined in the description, to a  
 plurality of processes and intermediates for their preparation, and to  
 their use as pesticides.

L39 ANSWER 6 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
 ACCESSION NUMBER: 2003:314077 BIOSIS  
 DOCUMENT NUMBER: PREV200300314077  
 TITLE: Oxymethoxy-3-aryl-pyrone derivatives.  
 AUTHOR(S): Bretschneider, Thomas [Inventor, Reprint Author];  
**Fischer, Reiner** [Inventor]; **Lieb, Folker**  
 [Inventor]; Hagemann, Hermann [Inventor]; Ruther, Michael  
 [Inventor]; Stetter, Jorg [Inventor]; Andersch, Wolfram  
 [Inventor]; Erdelen, Christoph [Inventor]; Hanssler, Gerd  
 [Inventor]; Mencke, Norbert [Inventor]; Stenzel, Klaus  
 [Inventor]; Turberg, Andreas [Inventor];  
 Wachendorff-Neumann, Ulrike [Inventor]  
 CORPORATE SOURCE: Lohmar, Germany  
 ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany  
 PATENT INFORMATION: US 6576771 20030610  
 SOURCE: Official Gazette of the United States Patent and Trademark  
 Office Patents, (June 10 2003) Vol. 1271, No. 2.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
 ISSN: 0098-1133 (ISSN print).  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 ENTRY DATE: Entered STN: 2 Jul 2003  
 Last Updated on STN: 2 Jul 2003

AB The invention relates to novel oxymethoxy-3-aryl-pyrone derivatives of the formula (I) ##STR1## in which A, D, R1, R2, X, Y, Z and n have the meanings specified in the description, a process for their preparation and their use as pesticides, fungicides and herbicides.

L39 ANSWER 7 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2003:122253 BIOSIS

DOCUMENT NUMBER: PREV200300122253

TITLE: 2- and 2.5-substituted phenylketoenols.

AUTHOR(S): **Lieb, Folker** [Inventor, Reprint Author];  
**Fischer, Reiner** [Inventor]; Bretschneider, Thomas [Inventor]; Ruther, Michael [Inventor]; Graff, Alan [Inventor]; Schneider, Udo [Inventor]; Erdelen, Christoph [Inventor]; Wachendorff-Neuman, Ulrike [Inventor]; Andersch, Wolfram [Inventor]; Turberg, Andreas [Inventor]

CORPORATE SOURCE: Leverkusen, Germany

ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany

PATENT INFORMATION: US 6504036 20030107

SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (Jan 7 2003) Vol. 1266, No. 1.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).

DOCUMENT TYPE: Patent

LANGUAGE: English

ENTRY DATE: Entered STN: 5 Mar 2003

Last Updated on STN: 5 Mar 2003

AB The invention relates to novel phenyl-substituted cyclic ketoenols of the formula (I) ##STR1## in which Het represents one of the groups ##STR2## in which A, B, D, G, X and Z are each as defined in the description, to a plurality of processes and intermediates for their preparation, and to their use as pesticides.

L39 ANSWER 8 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2002:630760 BIOSIS

DOCUMENT NUMBER: PREV200200630760

TITLE: Dialkyl phenyl halide-substituted keto-enols for use as herbicides and pesticides.

AUTHOR(S): **Fischer, Reiner** [Inventor, Reprint author]; Bretschneider, Thomas [Inventor]; Hagemann, Hermann [Inventor]; **Lieb, Folker** [Inventor]; Ruther, Michael [Inventor]; Widdig, Arno [Inventor]; Dahmen, Peter [Inventor]; Dollinger, Markus [Inventor]; Erdelen, Christoph [Inventor]; Santel, Hans-Joachim [Inventor]; Wachendorff-Neumann, Ulrike [Inventor]; Graff, Alan [Inventor]; Andersch, Wolfram [Inventor]

CORPORATE SOURCE: Monheim, Germany

ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany

PATENT INFORMATION: US 6469196 20021022

SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (Oct. 22, 2002) Vol. 1263, No. 4.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.

DOCUMENT TYPE: Patent

LANGUAGE: English

ENTRY DATE: Entered STN: 12 Dec 2002

Last Updated on STN: 12 Dec 2002

AB The present invention relates to new compounds of the formula (I) ##STR1## in which X represents alkyl, Y represents halogen or alkyl and Z represents halogen or alkyl, with the proviso that one of the radicals Y and Z always represents halogen and the other alkyl, Het represents one of

the groups ##STR2## in which A, B, D and G have the meanings given in the description, a plurality of processes for their preparation and their use as pesticides and herbicides.

L39 ANSWER 9 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2002:583079 BIOSIS

DOCUMENT NUMBER: PREV200200583079

TITLE: Arylphenyl-substituted cyclic keto enols.

AUTHOR(S): **Lieb, Folker** [Inventor, Reprint author];  
**Fischer, Reiner** [Inventor]; Graff, Alan [Inventor];  
Schneider, Udo [Inventor]; Bretschneider, Thomas  
[Inventor]; Erdelen, Christoph [Inventor]; Andersch,  
Wolfram [Inventor]; Drewes, Mark Wilhelm [Inventor];  
Dollinger, Markus [Inventor]; Wetcholowsky, Ingo  
[Inventor]; Feucht, Dieter [Inventor]; Pontzen, Rolf  
[Inventor]; Myers, Randy Allen [Inventor]

CORPORATE SOURCE: Leverkusen, Germany

ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany

PATENT INFORMATION: US 6451843 20020917

SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Sep. 17, 2002) Vol. 1262, No. 3.

<http://www.uspto.gov/web/menu/patdata.html>. e-file.

CODEN: OGUPE7. ISSN: 0098-1133.

DOCUMENT TYPE: Patent

LANGUAGE: English

ENTRY DATE: Entered STN: 13 Nov 2002

Last Updated on STN: 13 Nov 2002

AB The present invention relates to novel arylphenyl-substituted cyclic  
ketoenols, their preparation and the use of such ketoenols as pesticides  
and/or herbicides. The novel arylphenyl-substituted cyclic ketoenols are  
of the formula (I) ##STR1## in which CKE refers to the cyclic ketoenol and  
W, X, Y and Z are as defined in the specification.

L39 ANSWER 10 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN

ACCESSION NUMBER: 2002:534289 BIOSIS

DOCUMENT NUMBER: PREV200200534289

TITLE: 3-phenyl-pyrones.

AUTHOR(S): **Lieb, Folker** [Inventor, Reprint author];  
**Fischer, Reiner** [Inventor]; Graff, Alan [Inventor];  
Schneider, Udo [Inventor]; Ruther, Michael [Inventor];  
Erdelen, Christoph [Inventor]; Andersch, Wolfram  
[Inventor]; Wachendorff-Neumann, Ulrike [Inventor];  
Hanssler, Gerd [Inventor]; Mauler-Machnik, Astrid  
[Inventor]; Stenzel, Klaus [Inventor]

CORPORATE SOURCE: Leverkusen, Germany

ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany

PATENT INFORMATION: US 6441030 20020827

SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Aug. 27, 2002) Vol. 1261, No. 4.

<http://www.uspto.gov/web/menu/patdata.html>. e-file.

CODEN: OGUPE7. ISSN: 0098-1133.

DOCUMENT TYPE: Patent

LANGUAGE: English

ENTRY DATE: Entered STN: 16 Oct 2002

Last Updated on STN: 16 Oct 2002

AB Novel 3-phenyl-pyrones of the formula ##STR1## in which A, D, X and Y are  
each as defined in the description, a process for preparing these  
substances and their use as pesticides, fungicides and herbicides.



L39 ANSWER 11 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN

ACCESSION NUMBER: 2002:447136 BIOSIS  
DOCUMENT NUMBER: PREV200200447136  
TITLE: Arylphenyl-substituted cyclic keto-enols.  
AUTHOR(S): **Lieb, Folker** [Inventor, Reprint author];  
**Fischer, Reiner** [Inventor]; Graff, Alan [Inventor];  
Schneider, Udo [Inventor]; Bretschneider, Thomas  
[Inventor]; Erdelen, Christoph [Inventor]; Andersch,  
Wolfram [Inventor]; Drewes, Mark-Wilhelm [Inventor];  
Dollinger, Markus [Inventor]; Wetcholowsky, Ingo  
[Inventor]; Myers, Randy Allen [Inventor]  
CORPORATE SOURCE: Leverkusen, Germany  
ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany  
PATENT INFORMATION: US 6417370 20020709  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (July 9, 2002) Vol. 1260, No. 2.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 21 Aug 2002  
Last Updated on STN: 21 Aug 2002

AB The present invention relates to novel arylphenyl-substituted cyclic  
ketoenols of the formula (I) ##STR1## in which X represents halogen,  
alkyl, alkoxy, alkenyloxy, alkylthio, alkylsulphinyl, alkylsulphonyl,  
halogenoalkyl, halogeno-alkoxy, halogenoalkenyloxy, nitro, cyano or in  
each case optionally substituted phenyl, phenoxy, phenylthio,  
phenyl-alkoxy or phenylalkylthio, Y represents in each case optionally  
substituted cycloalkyl, aryl or hetaryl, Z represents hydrogen, halogen,  
alkyl, alkoxy, alkenyloxy, halogenoalkyl, halogenoalkoxy,  
halogenoalkenyloxy, nitro or cyano, CKE represents one of the groups  
##STR2## in which A, B, D, G and Q1 to Q6 are each as defined in the  
description, to a plurality of processes for their use as pesticides and  
herbicides.

L39 ANSWER 12 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN

ACCESSION NUMBER: 2002:315041 BIOSIS  
DOCUMENT NUMBER: PREV200200315041  
TITLE: Alkyl-dihalogenated phenyl-substituted ketoenols useful as  
pesticides and herbicides.  
AUTHOR(S): **Lieb, Folker** [Inventor, Reprint author];  
Hagemann, Hermann [Inventor]; Widdig, Arno [Inventor];  
Ruther, Michael [Inventor]; **Fischer, Reiner**  
[Inventor]; Bretschneider, Thomas [Inventor]; Erdelen,  
Christoph [Inventor]; Wachendorff-Neumann, Ulrike  
[Inventor]; Dahmen, Peter [Inventor]; Dollinger, Markus  
[Inventor]; Santel, Hans-Joachim [Inventor]; Graff, Alan  
[Inventor]; Andersch, Wolfram [Inventor]; Mencke, Norbert  
[Inventor]; Turberg, Andreas [Inventor]  
CORPORATE SOURCE: Leverkusen, Germany  
ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany  
PATENT INFORMATION: US 6380246 20020430  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Apr. 30, 2002) Vol. 1257, No. 5.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English

ENTRY DATE: Entered STN: 29 May 2002  
Last Updated on STN: 29 May 2002

AB The present invention relates to new compounds of the formula (I) ##STR1## in which X represents halogen, Y represents halogen or alkyl and Z represents halogen or alkyl, with the proviso that always one of the radicals Y and Z represents halogen while the other represents alkyl, and Het represents one of the groups ##STR2## in which A, B, D and G have the meanings given in the description, to a plurality of processes for their preparation and to their use as pesticides and herbicides.

L39 ANSWER 13 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2002:240567 BIOSIS  
DOCUMENT NUMBER: PREV200200240567  
TITLE: 2- and 2,5-substituted phenylketoenols.  
AUTHOR(S): **Lieb, Folker** [Inventor, Reprint author];  
**Fischer, Reiner** [Inventor]; Bretschneider, Thomas [Inventor]; Ruther, Michael [Inventor]; Graff, Alan [Inventor]; Schneider, Udo [Inventor]; Erdelen, Christoph [Inventor]; Wachendorff-Neumann, Ulrike [Inventor]; Andersch, Wolfram [Inventor]; Turberg, Andreas [Inventor]  
CORPORATE SOURCE: Leverkusen, Germany  
ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany  
PATENT INFORMATION: US 6359151 20020319  
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (Mar. 19, 2002) Vol. 1256, No. 3.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 10 Apr 2002  
Last Updated on STN: 10 Apr 2002

AB The invention relates to novel phenyl-substituted cyclic ketoenols of the formula (I) ##STR1## in which Het represents one of the groups ##STR2## in which A, B, D, G, X and Z are each as defined in the description, to a plurality of processes and intermediates for their preparation, and to their use as pesticides.

L39 ANSWER 14 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2002:225700 BIOSIS  
DOCUMENT NUMBER: PREV200200225700  
TITLE: Alkyl dihalogenated phenyl-substituted ketoenols useful as pesticides and herbicides.  
AUTHOR(S): **Lieb, Folker** [Inventor, Reprint author];  
Hagemann, Hermann [Inventor]; Widdig, Arno [Inventor]; Ruther, Michael [Inventor]; **Fischer, Reiner** [Inventor]; Bretschneider, Thomas [Inventor]; Erdelen, Christoph [Inventor]; Wachendorff-Neumann, Ulrike [Inventor]; Dahmen, Peter [Inventor]; Dollinger, Markus [Inventor]; Santel, Hans-Joachim [Inventor]; Graff, Alan [Inventor]; Andersch, Wolfram [Inventor]; Mencke, Norbert [Inventor]; Turberg, Andreas [Inventor]  
CORPORATE SOURCE: Leverkusen, Germany  
ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany  
PATENT INFORMATION: US 6316486 20011113  
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (Nov. 13, 2001) Vol. 1252, No. 2.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.

DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 3 Apr 2002  
Last Updated on STN: 3 Apr 2002

AB The present invention relates to new compounds of the formula (I) ##STR1## in which X represents halogen, Y represents halogen or alkyl and Z represents halogen or alkyl, with the proviso that always one of the radicals Y and Z represents halogen while the other represents alkyl, and Het represents one of the groups ##STR2## in which A, B, D and G have the meanings given in the description, to a plurality of processes for their preparation and to their use as pesticides and herbicides.

L39 ANSWER 15 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2001:380047 BIOSIS  
DOCUMENT NUMBER: PREV200100380047  
TITLE: 2-and 2,5-substituted phenylketoenols.  
AUTHOR(S): **Lieb, Folker** [Inventor, Reprint author];  
**Fischer, Reiner** [Inventor]; Bretschneider, Thomas [Inventor]; Ruther, Michael [Inventor]; Graff, Alan [Inventor]; Schneider, Udo [Inventor]; Erdelen, Christoph [Inventor]; Wachendorff-Neumann, Ulrike [Inventor]; Andersch, Wolfram [Inventor]; Turberg, Andreas [Inventor]  
CORPORATE SOURCE: Leverkusen, Germany  
ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany  
PATENT INFORMATION: US 6255342 20010703  
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (July 3, 2001) Vol. 1248, No. 1. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.

DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 8 Aug 2001  
Last Updated on STN: 19 Feb 2002

AB The invention relates to novel phenyl-substituted cyclic ketoenols of the formula (I) ##STR1## in which Het represents one of the groups ##STR2## in which A, B, D, G, X and Z are each as defined in the description, to a plurality of processes and intermediates for their preparation, and to their use as pesticides.

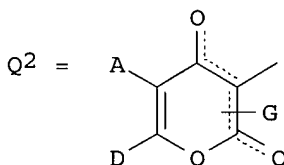
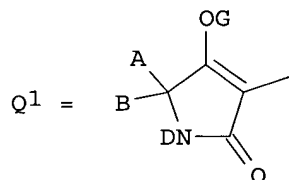
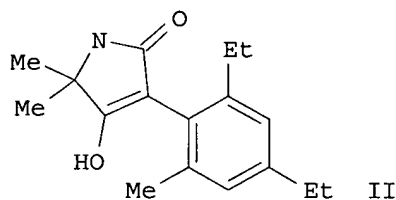
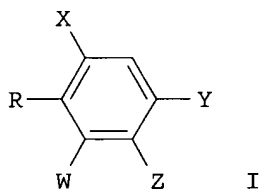
L39 ANSWER 16 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:747747 CAPLUS  
DOCUMENT NUMBER: 135:288687  
TITLE: Preparation of aryl-substituted heterocyclic ketoenols as pesticides and herbicides.  
INVENTOR(S): Ruther, Michael; Hagemann, Hermann; Schneider, Udo; Dollinger, Markus; Dahmen, Peter; Wachendorff-neumann, Ulrike; **Fischer, Reiner**; Graff, Alan; Bretschneider, Thomas; Erdelen, Christoph; Drewes, Mark Wilhelm; Feucht, Dieter; **Lieb, Folker**  
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany; et al.  
SOURCE: PCT Int. Appl., 243 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001074770	A1	20011011	WO 2001-EP3215	20010321

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

DE 10016544	A1	20011011	DE 2000-10016544	20000403
CA 2404868	AA	20020930	CA 2001-2404868	20010321
EP 1280770	A1	20030205	EP 2001-917102	20010321
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001009750	A	20030225	BR 2001-9750	20010321
JP 2004501071	T2	20040115	JP 2001-572465	20010321
ZA 2002006836	A	20030918	ZA 2002-6836	20020827
US 2003216260	A1	20031120	US 2002-239331	20021216
PRIORITY APPLN. INFO.:			DE 2000-10016544	A 20000403
			WO 2001-EP3215	W 20010321
OTHER SOURCE(S):			MARPAT 135:288687	
GI				



AB Title compds. I; [W = H, alkyl, alkenyl, alkynyl; X = alkyl, alkenyl, alkynyl; Y = H, Me, Et, Me<sub>2</sub>CH, alkenyl, alkynyl; Z = H, alkyl, alkenyl, alkynyl; ≥1 of W, X, Y, Z = chain containing ≥2 C atoms; R = Q1, Q2, etc.; A = H, (halo-substituted) alkyl, alkenyl, alkoxyalkyl, (substituted) (hetero)cycloalkyl, etc.; B = H, alkyl, alkoxyalkyl; AB, AD = atoms to form a (substituted) (heterocyclic) ring; D = H, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, (unsatd.) (hetero)cycloalkyl, etc.; G = H, acyl], were prepared Thus, 2,4-diethyl-6-methylphenylacetic acid was stirred with SOCl<sub>2</sub> and the residue in THF was added to a 0-10° solution of Me 2-amino-2-methylpropionate and Et<sub>3</sub>N in THF followed by stirring from 1 h to give 66% amide, which was heated with KO<sup>t</sup>Me<sub>3</sub> in DMF to give 58% title compound (II). II at 1000 ppm gave 100% kill of *Nephotettix cincticeps* on rice seedlings.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 17 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:923233 CAPLUS

DOCUMENT NUMBER: 136:37508

TITLE: Preparation of phenyldihydropyrones as pesticides and herbicides.

INVENTOR(S): Fischer, Reiner; Graff, Alan; Lieb, Folker; Ullmann, Astrid; Trautwein, Axel; Wischnat, Ralf; Schneider, Udo; Drewes, Mark-Wilhelm; Erdelen, Christoph; Dahmen, Peter; Feucht, Dieter; Pontzen, Rolf

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 58 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

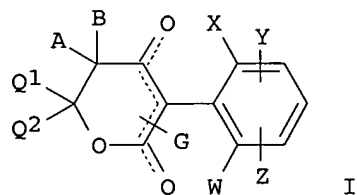
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10030094	A1	20011220	DE 2000-10030094	20000619
CA 2412152	AA	20011227	CA 2001-2412152	20010608
WO 2001098288	A1	20011227	WO 2001-EP6522	20010608
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1303505	A1	20030423	EP 2001-949391	20010608
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001012063	A	20030513	BR 2001-12063	20010608
JP 2004501144	T2	20040115	JP 2002-504244	20010608
US 2004102516	A1	20040527	US 2003-311009	20030506
US 6906007	B2	20050614		

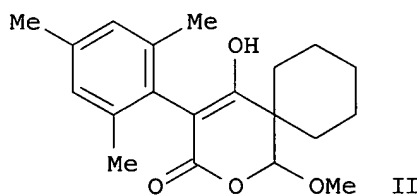
PRIORITY APPLN. INFO.: DE 2000-10030094 A 20000619  
WO 2001-EP6522 W 20010608

OTHER SOURCE(S): MARPAT 136:37508

GI



I



II

AB Title compds. [I; W = H, alkyl, alkenyl, alkynyl, halo, haloalkyl, alkoxy; X = halo, alkyl, alkoxy, alkenyl, alkynyl, haloalkyl, haloalkoxy, cyano, (substituted) Ph, PhO, PhS, etc.; Z = H, halo, alkyl, alkoxy, haloalkyl, cyano; A = bond, H, (substituted) alkyl, alkenyl, alkoxyalkyl, cycloalkyl, cycloalkylalkyl, etc.; B = H, alkyl; AB = atoms to form an (unsatd.)

(heterocyclic) ring; Q1 = H, OH, alkyl, alkoxy, alkoxyalkyl, alkylacyloxy, etc.; Q2 = H, alkyl; Q1Q2 = atoms to form a (heterocyclic) ring; G = H acyl], were prepared. Thus, 2,4,6-trimethylphenylchlorocarbonylketene in xylene was treated dropwise with trimethylsilyloxymethylidenecyclohexane in xylene followed by 8 h reflux, addition of MeOH, and 2 h reflux to give 27% title compound (II). Several I at 20 ppm gave a 100% kill of *Myzus persicae* on cabbage leaves.

L39 ANSWER 18 OF 43 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN DUPLICATE 1

ACCESSION NUMBER: 2001166681 EMBASE  
TITLE: 2-(Chlorocarbonyl)-2-mesitylketene, a new building block for the synthesis of 4-hydroxy-3-mesityl tetronic acids.  
AUTHOR: **Lieb F.**; Benet-Buchholz J.; Facke T.; **Fischer R.**; Graff A.; Lefebvre I.M.; Stetter J.  
CORPORATE SOURCE: F. Lieb, Bayer AG, Central Research, D-51368 Leverkusen, Germany. folker.lieb.fl@bayer-ag.de  
SOURCE: Tetrahedron, (7 May 2001) Vol. 57, No. 19, pp. 4133-4137.  
Refs: 19  
ISSN: 0040-4020 CODEN: TETRAB  
PUBLISHER IDENT.: S 0040-4020(01)00293-9  
COUNTRY: United Kingdom  
DOCUMENT TYPE: Journal; Article  
FILE SEGMENT: 029 Clinical Biochemistry  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ENTRY DATE: Entered STN: 20010523  
Last Updated on STN: 20010523

AB Investigation of the reaction of (chlorocarbonyl)mesitylketene with ketones led to the discovery of a new synthetic pathway which yields 4-hydroxy-3-mesityl tetronic acids. Depending on the reaction conditions and the substitution pattern of the starting ketone, the expected products, i.e. 4-hydroxy-3-mesitylpyrones, can nevertheless be obtained.  
.COPYRGT. 2001 Elsevier Science Ltd.

L39 ANSWER 19 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2001:252904 BIOSIS  
DOCUMENT NUMBER: PREV200100252904  
TITLE: Substituted pyridyl keto enols.  
AUTHOR(S): **Lieb, Folker** [Inventor, Reprint author]; Hagemann, Hermann [Inventor]; Widdig, Arno [Inventor]; Ruther, Michael [Inventor]; **Fischer, Reiner** [Inventor]; Bretschneider, Thomas [Inventor]; Erdelen, Christoph [Inventor]; Wachendorff-Neumann, Ulrike [Inventor]; Graff, Alan [Inventor]; Dahmen, Peter [Inventor]; Dollinger, Markus [Inventor]; Gallenkamp, Bernd [Inventor]  
CORPORATE SOURCE: Leverkusen, Germany  
ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany  
PATENT INFORMATION: US 6133296 20001017  
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (Oct. 17, 2000) Vol. 1239, No. 3. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 23 May 2001  
Last Updated on STN: 19 Feb 2002

AB The invention relates to new pyridyl-substituted cyclic ketoenols of the formula (I) ##STR1## in which V1, V2 or V3 represents nitrogen, Het

represents one of the groups ##STR2## A, B, G, W, Z and z have the meanings given in the description, to a plurality of processes and intermediates for their preparation, and to their use as pesticides and herbicides.

L39 ANSWER 20 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2001:69267 BIOSIS  
DOCUMENT NUMBER: PREV200100069267  
TITLE: Oxymethoxy-3-aryl-pyrone derivatives.  
AUTHOR(S): Bretschneider, Thomas [Inventor, Reprint author];  
**Fischer, Reiner** [Inventor]; **Lieb, Folker**  
[Inventor]; Hagemann, Hermann [Inventor]; Ruther, Michael  
[Inventor]; Stetter, Jorg [Inventor]; Andersch, Wolfram  
[Inventor]; Erdelen, Christoph [Inventor]; Hanssler, Gerd  
[Inventor]; Mencke, Norbert [Inventor]; Stenzel, Klaus  
[Inventor]; Turberg, Andreas [Inventor];  
Wachendorff-Neumann, Ulrike [Inventor]  
CORPORATE SOURCE: Lohmar, Germany  
ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany  
PATENT INFORMATION: US 6071937 20000606  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (June 6, 2000) Vol. 1235, No. 1. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 7 Feb 2001  
Last Updated on STN: 12 Feb 2002

AB The invention relates to novel oxymethoxy-3-aryl-pyrone derivatives of the formula (I) ##STR1## in which A, D, R1, R2, X, Y, Z and n have the meanings specified in the description, a process for their preparation and their use as pesticides, fungicides and herbicides.

L39 ANSWER 21 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2000:366479 BIOSIS  
DOCUMENT NUMBER: PREV200000366479  
TITLE: Substituted thiophene derivatives as pesticides and herbicides.  
AUTHOR(S): **Fischer, Reiner** [Inventor, Reprint author];  
Dumas, Jacques [Inventor]; Bretschneider, Thomas  
[Inventor]; Gallenkamp, Bernd [Inventor]; **Lieb, Folker** [Inventor]; Wernthaler, Konrad [Inventor];  
Erdelen, Christoph [Inventor]; Wachendorff-Neumann, Ulrike  
[Inventor]; Mencke, Norbert [Inventor]; Turberg, Andreas  
[Inventor]  
CORPORATE SOURCE: Monheim, Germany  
ASSIGNEE: Bayer Aktiengesellschaft, Leverkusen, Germany  
PATENT INFORMATION: US 6025383 20000215  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Feb. 15, 2000) Vol. 1231, No. 3. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 23 Aug 2000  
Last Updated on STN: 8 Jan 2002

AB The invention relates to novel thiophene derivatives of the formula (I) ##STR1## in which X represents halogen, alkyl, alkoxy, alkylthio, halogenoalkyl, halogenoalkoxy, nitro or cyano, or two substituents X, together with the carbon atoms to which they are attached, form a

saturated or unsaturated, optionally substituted ring, n represents a number from 1 to 3, and Z represents one of the groups ##STR2## in which A, B, D, G, Q1, Q2 and Q3 have the meaning given in the description, to processes for their preparation and to their use as pesticides and herbicides.

L39 ANSWER 22 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:260262 CAPLUS

DOCUMENT NUMBER: 132:279112

TITLE: Preparation of 4-hydroxy-3-phenylpyrones as pesticides, fungicides, and herbicides.

INVENTOR(S): **Lieb, Folker; Fischer, Reiner;**  
Graff, Alan; Schneider, Udo; Ruther, Michael; Erdelen, Christoph; Andersch, Wolfram; Wachendorff-Neumann, Ulrike; Hanssler, Gerd; Mauler-Machnik, Astrid; Stenzel, Klaus

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

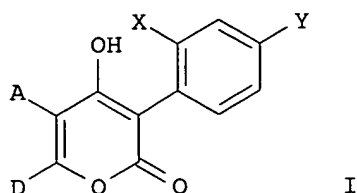
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000021946	A1	20000420	WO 1999-EP7113	19990924
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19846517	A1	20000420	DE 1998-19846517	19981009
AU 9963292	A1	20000501	AU 1999-63292	19990924
AU 750249	B2	20020711		
EP 1119559	A1	20010801	EP 1999-950547	19990924
EP 1119559	B1	20031126		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9915917	A	20010821	BR 1999-15917	19990924
JP 2002527429	T2	20020827	JP 2000-575852	19990924
AT 255097	E	20031215	AT 1999-950547	19990924
ES 2209514	T3	20040616	ES 1999-950547	19990924
US 6441030	B1	20020827	US 2001-807135	20010406
PRIORITY APPLN. INFO.:			DE 1998-19846517	A 19981009
			WO 1999-EP7113	W 19990924
OTHER SOURCE(S):	MARPAT	132:279112		
GI				





AB Title compds. [I; X = alkyl, Y = halo, or X = halo, Y = alkyl; A = H, alkyl, (substituted) aryl; D = H, alkyl, (substituted) cycloalkyl, aryl, heterocyclyl, CH<sub>2</sub>O<sub>2</sub>CR; R = (substituted) Ph; AD = atoms to form a (substituted) carbocyclyl; with 2 specific exceptions], were prepared Thus, (chlorocarbonyl)-2-(2-methyl-4-chlorophenyl)ketene and Et pyrid-2-yl ketone were refluxed 8 h in PhMe to give 51% 3-(2-methyl-4-chlorophenyl)-4-hydroxy-5-methyl-6-(pyrid-2-yl)pyrone. The latter at 0.1% gave >90% control of Myzus persicae on cabbage.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 23 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:191079 CAPLUS

DOCUMENT NUMBER: 132:222444

TITLE: Preparation of arylthiopyrones as pesticides and herbicides.

INVENTOR(S): **Lieb, Folker; Fischer, Reiner;**  
Stetter, Jorg; Bretschneider, Thomas; Erdelen,  
Christoph; Wachendorff-Neumann, Ulrike

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: PCT Int. Appl., 129 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

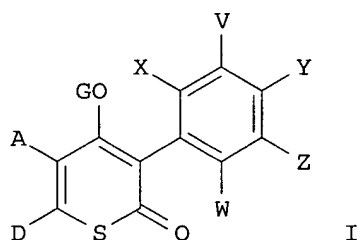
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000015632	A1	20000323	WO 1999-EP6475	19990903
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19921157	A1	20000713	DE 1999-19921157	19990507
AU 9957450	A1	20000403	AU 1999-57450	19990903
PRIORITY APPLN. INFO.:			DE 1998-19841511	A 19980911
			DE 1999-19921157	A 19990507
			WO 1999-EP6475	W 19990903

OTHER SOURCE(S): MARPAT 132:222444

GI



AB Title compds. [I; V = H, halo, alkyl, alkoxy; W = H, cyano, NO<sub>2</sub>, halo, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, haloalkoxy, (substituted) Ph, PhO, PhS, etc.; X = halo, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, haloalkoxy, cyano, NO<sub>2</sub>, (substituted) Ph, PhO, PhS, etc.; Y = H, halo, alkyl, alkoxy, haloalkyl, haloalkoxy, cyano, NO<sub>2</sub>, (substituted) Ph; Z = H, halo, alkyl, alkoxy, haloalkyl, haloalkoxy, OH, NO<sub>2</sub>, (substituted) Ph, PhO, PhS, heteroaryloxy, heteroarylthio, etc.; YZ, WZ = atoms to form (substituted) (heterocyclic) rings; A = H, (halo-substituted) alkyl, alkenyl, alkoxyalkyl, (unsatd.) (substituted) cycloalkyl, heterocyclyl, etc.; D = H, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, (unsatd.) cycloalkyl, heterocyclyl, aralkyl, aryl, heteroaryl, etc.], were prepared Thus, 2-(2,4,6-trimethylphenyl)chlorocarbonylketene and thioacetophenone were refluxed 8 h in PhMe to give 31% 3-[(2,4,6-trimethylphenyl)-4-hydroxy-6-phenylthiopyrone. Tested I at 0.1% had a kill rate of 100% against *Nephotettix cinctipes* on rice seedlings.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:607400 CAPLUS

DOCUMENT NUMBER: 133:193062

TITLE: Preparation of 2-aryl-4-hydroxy-2,5-dihydro-2-furanones and analogs

INVENTOR(S): **Lieb, Folker; Fischer, Reiner;**  
Graff, Alan

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 8 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

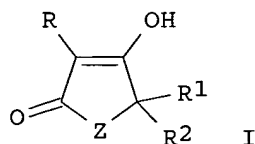
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19908699	A1	20000831	DE 1999-19908699	19990226
PRIORITY APPLN. INFO.:			DE 1999-19908699	19990226
OTHER SOURCE(S):			CASREACT 133:193062; MARPAT 133:193062	

GI



AB Title compds. [I; R = (un)substituted Ph; R1 = H, (un)substituted (cyclo)alkyl, -(hetero)aryl; R2 = CR3:CHR4; R3 = H, halo, (un)substituted cycloalkyl; R4 = H or (un)substituted alkyl; R1R4,R3R4 = atoms to complete a ring; Z = O, S, [(ar)alkyl]imino] were prepared by cyclocondensation of RC(COCl):C:O with R1C(:Z)CHR3CH2R4. Thus, 2,4,6-trimethylphenylchlorocarbonylketene was refluxed 8h with Me cyclopentyl ketone to give 60% I (R = 2,4,6-trimethylphenyl, R1 = Me, R2 = 1-cyclopentenyl).

L39 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:275354 CAPLUS

DOCUMENT NUMBER: 132:265086

TITLE: Preparation of substituted 3-halo-3-phenylpyrone pesticides, herbicides and agrochemical fungicides

INVENTOR(S): Lieb, Folker; Fischer, Reiner; Ruther, Michael; Erdelen, Christoph

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 16 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

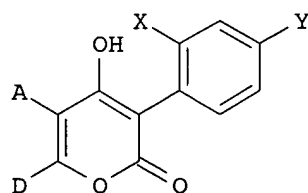
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19848895	A1	20000427	DE 1998-19848895	19981023
WO 2000024729	A1	20000504	WO 1999-EP7643	19991012
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

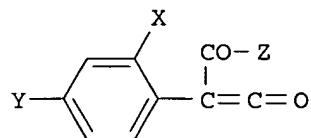
PRIORITY APPLN. INFO.: DE 1998-19848895 A 19981023

OTHER SOURCE(S): CASREACT 132:265086; MARPAT 132:265086

GI



I



II

AB 3-Halo-3-phenylpyrones [I; A = halogen; D = H, alkyl, (un)substituted cycloalkyl, (un)substituted aryl, (un)substituted heterocyclyl, CH<sub>2</sub>O<sub>2</sub>CR; R = (un)substituted Ph; X = alkyl and Y = F or X = F and Y = alkyl], useful as pesticides (no data), herbicides (no data), and agrochem. fungicides (no data), are prepared in high yield and selectivity by the cyclocondensation of aryl halomethyl ketones DCOCH<sub>2</sub>A with phenylketenes (II; Z = halogen). Thus, (chlorocarbonyl)-2-(2-methyl-4-fluorophenyl)ketene was cyclocondensed with chloromethyl 4-fluorophenyl ketone, producing 3-(2-methyl-4-fluorophenyl)-4-hydroxy-5-chloro-6-(4-fluorophenyl)pyrone, m.p. 229-231°, in 80% theor. yield.

L39 ANSWER 26 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:275352 CAPLUS

DOCUMENT NUMBER: 132:275482

TITLE: Preparation of 3-phenylpyrone derivatives as pesticides

INVENTOR(S): **Lieb, Folker; Fischer, Reiner;**  
Ruther, Michael; Erdelen, Christoph

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 14 pp.

CODEN: GWXXBX

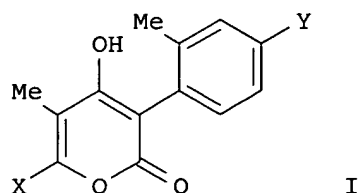
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19848893	A1	20000427	DE 1998-19848893	19981023
WO 2000024256	A1	20000504	WO 1999-EP7652	19991012
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
BR 9914711	A	20010731	BR 1999-14711	19991012
EP 1123003	A1	20010816	EP 1999-953783	19991012
EP 1123003	B1	20040317		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2002528397	T2	20020903	JP 2000-577884	19991012
AT 261658	E	20040415	AT 1999-953783	19991012
ES 2214896	T3	20040916	ES 1999-953783	19991012
US 6472350	B1	20021029	US 2001-807767	20010418
PRIORITY APPLN. INFO.:			DE 1998-19848893	A 19981023
			WO 1999-EP7652	W 19991012
OTHER SOURCE(S):	MARPAT 132:275482			
GI				



AB 3-Phenylpyrone derivs. I (X = pyrid-2-yl; Y = F; or X = 4-fluorophenyl; Y = Cl) are prepared as insecticides, fungicides and herbicides.

L39 ANSWER 27 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:708738 CAPLUS

DOCUMENT NUMBER: 131:310546

TITLE: Arylphenyl-substituted cyclic keto enols as insecticides and acaricides

INVENTOR(S): **Lieb, Folker; Fischer, Reiner;**  
Graff, Alan; Schneider, Udo; Bretschneider, Thomas;  
Erdelen, Christoph; Andersch, Wolfram; Drewes, Mark  
Wilhelm; Dollinger, Markus; Wetcholowsky, Ingo;  
Feucht, Dieter; Pontzen, Rolf; Myers, Randy Allen

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: PCT Int. Appl., 245 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

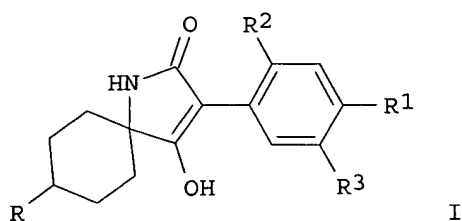
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9955673	A1	19991104	WO 1999-EP2488	19990414
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19818732	A1	19991028	DE 1998-19818732	19980427
AU 9934215	A1	19991116	AU 1999-34215	19990414
BR 9910034	A	20001226	BR 1999-10034	19990414
EP 1075465	A1	20010214	EP 1999-915759	19990414
R: FR				
JP 2002513002	T2	20020508	JP 2000-545833	19990414
US 6451843	B1	20020917	US 2001-673907	20010102
US 2003096806	A1	20030522	US 2002-192361	20020710
PRIORITY APPLN. INFO.:			DE 1998-19818732	A 19980427
			WO 1999-EP2488	W 19990414
			US 2001-673907	A3 20010102

OTHER SOURCE(S): MARPAT 131:310546

GI



AB Title compds. were prepared for use as insecticides and acaricides. Thus, pyrrolinone I [R = Me, R1 = 4-ClC6H4, R2 = Me, R3 = Cl] was prepared by treating I [R1 = Br] with 4-ClC6H4B(OH)2. I [R = OEt, R1 = 4-ClC6H4, R2 = Cl, R3 = Me] at 1% gave 90% kill of *Phaedon cochleariae* and at 0.1% gave 95% kill of *Tetranychus urticae*.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 28 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:626173 CAPLUS

DOCUMENT NUMBER: 131:243180

TITLE: Preparation of arylketoenols as pesticides and herbicides.

INVENTOR(S): **Lieb, Folker; Fischer, Reiner;**  
Graff, Alan; Schneider, Udo; Bretschneider, Thomas;  
Erdelen, Christoph; Andersch, Wolfram; Drewes, Mark  
Wilhelm; Dollinger, Markus; Wetcholowsky, Ingo; Myers,  
Randy Allen

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 267 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

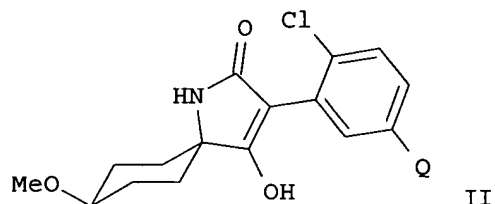
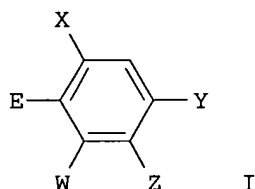
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9948869	A1	19990930	WO 1999-EP1787	19990318
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
DE 19813354	A1	19990930	DE 1998-19813354	19980326
CA 2325526	AA	19990930	CA 1999-2325526	19990318
AU 9934147	A1	19991018	AU 1999-34147	19990318
AU 751256	B2	20020808		
BR 9909143	A	20001205	BR 1999-9143	19990318
TR 200002752	T2	20001221	TR 2000-200002752	19990318
EP 1066258	A1	20010110	EP 1999-915653	19990318
R:	AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL			
JP 2002507599	T2	20020312	JP 2000-537852	19990318
US 6458965	B1	20021001	US 2001-646722	20010102

US 2003073851	A1	20030417	US 2002-142325	20020509
US 6693092	B2	20040217		
US 2004127365	A1	20040701	US 2003-730556	20031208
US 6806264	B2	20041019		

PRIORITY APPLN. INFO.:

DE 1998-19813354	A	19980326
WO 1999-EP1787	W	19990318
US 2001-646722	A3	20010102
US 2002-142325	A3	20020509

OTHER SOURCE(S):            MARPAT 131:243180  
GI



AB Title compds. [I; X = halo, alkyl, alkoxy, alkenyloxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkyl, haloalkoxy, haloalkenyloxy, NO<sub>2</sub>, cyano, (substituted) Ph, PhO, PhS, phenylalkoxy, phenylalkylthio; Z = (substituted) cycloalkyl, aryl, heteroaryl; W, Z = H, halo, alkyl, alkoxy, alkenyloxy, haloalkyl, haloalkoxy, haloalkenyloxy, NO<sub>2</sub>, cyano; E = specified (substituted) dioxopyrrolyl, dioxofuryl, dioxothienyl, dioxopyrazolyl, dioxopyranyl, dioxocyclopentyl, etc., residues], were prepared. Thus, II (Q = Br) was stirred with 4-trifluoromethoxyphenylboronic acid, Pd(PPh<sub>3</sub>)<sub>4</sub>, and Na<sub>2</sub>CO<sub>3</sub> in dimethoxyethane/H<sub>2</sub>O at 80° to give II (Q = 4-C<sub>6</sub>H<sub>4</sub>OCF<sub>3</sub>). I at 0.1% gave 95-100% kill of *Myzus persicae* on cabbage leaves.

REFERENCE COUNT:            11        THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 29 OF 43    CAPLUS    COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:        1999:566021    CAPLUS

DOCUMENT NUMBER:        131:199616

TITLE:                    Preparation of cyclic ketoenols as herbicides and pesticides

INVENTOR(S):            **Lieb, Folker; Fischer, Reiner;**  
Graff, Alan; Schneider, Udo; Bretschneider, Thomas;  
Erdelen, Christoph; Andersch, Wolfram; Drewes,  
Mark-Wilhelm; Dollinger, Markus; Wetcholowsky, Ingo;  
Myers, Randy Allen

PATENT ASSIGNEE(S):      Bayer Aktiengesellschaft, Germany

SOURCE:                  PCT Int. Appl., 264 pp.

CODEN: PIXXD2

DOCUMENT TYPE:           Patent

LANGUAGE:                German

FAMILY ACC. NUM. COUNT: 1

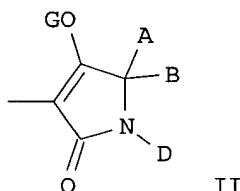
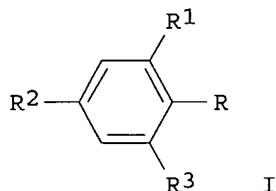
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9943649	A1	19990902	WO 1999-EP1029	19990217
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,				

MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,  
 TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,  
 TJ, TM  
 RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,  
 FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,  
 CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

DE 19808261	A1	19991028	DE 1998-19808261	19980227
CA 2322158	AA	19990902	CA 1999-2322158	19990217
AU 9925231	A1	19990915	AU 1999-25231	19990217
AU 749786	B2	20020704		
BR 9909243	A	20001114	BR 1999-9243	19990217
EP 1056717	A1	20001206	EP 1999-904881	19990217
EP 1056717	B1	20050720		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL				
JP 2002504538	T2	20020212	JP 2000-533407	19990217
ZA 9901568	A	19990827	ZA 1999-1568	19990226
US 6417370	B1	20020709	US 2000-623016	20001023
US 2002188136	A1	20021212	US 2002-137763	20020502
US 6716832	B2	20040406		
US 2004167031	A1	20040826	US 2004-777528	20040212
PRIORITY APPLN. INFO.:				
			DE 1998-19808261	A 19980227
			WO 1999-EP1029	W 19990217
			US 2000-623016	A3 20001023
			US 2002-137763	A3 20020502

OTHER SOURCE(S): MARPAT 131:199616  
 GI



AB Title compds. [I; R = enolic oxo(hetero)cyclic group, e.g., oxopyrrolinyl group II; A = H, (halo)alk(en)yl, (hetero)aryl, etc.; B = H or (alkoxy)alkyl; AB = atoms to complete a ring; D = H, alk(en)yl, (hetero)aryl, etc.; AD = atoms to complete a ring; G = H or acyl; R1 = halo, alkyl, alkoxy, phenyl(oxy), etc.; R2 = (un)substituted cycloalkyl or -(hetero)aryl; R3 = H, halo, alkyl, alkoxy, etc.] were prepared Thus, I (R = group II, A = CHMe2, B = R1 = Me, D = G = H, R2 = Et) (III; R2 = Br) was condensed with 4-ClC6H4B(OH)2 to give III (R2 = C6H4Cl-4). Data for biol. activity of I were given.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 30 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2002:125585 BIOSIS

DOCUMENT NUMBER: PREV200200125585

TITLE: Substituted thiophene derivatives as pesticides and herbicides.

AUTHOR(S): **Fischer, R.** [Inventor]; Dumas, J. [Inventor]; Bretschneider, T. [Inventor]; Gallenkamp, B. [Inventor]; **Lieb, F.** [Inventor]; Wernthaler, K. [Inventor]; Erdelen, C. [Inventor]; Wachendorff-Neumann, U. [Inventor];



Mencke, N. [Inventor]; Turberg, A. [Inventor]  
 CORPORATE SOURCE: Monheim, Germany  
 ASSIGNEE: BAYER AKTIENGESELLSCHAFT  
 PATENT INFORMATION: US 5807805 19980915  
 SOURCE: Official Gazette of the United States Patent and Trademark  
 Office Patents, (Sept. 15, 1998) Vol. 1214, No. 3, pp.  
 2933-2934. print.  
 CODEN: OGUPE7. ISSN: 0098-1133.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 ENTRY DATE: Entered STN: 30 Jan 2002  
 Last Updated on STN: 26 Feb 2002

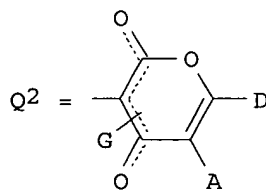
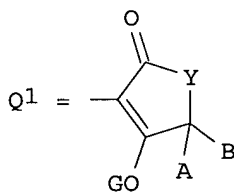
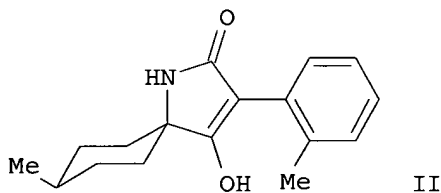
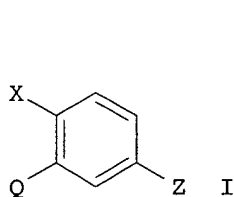
L39 ANSWER 31 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1998:112341 CAPLUS  
 DOCUMENT NUMBER: 128:180328  
 TITLE: Preparation of phenyl-substituted heterocyclic  
 ketoenols as pesticides.  
 INVENTOR(S): Lieb, Folker; Fischer, Reiner;  
 Bretschneider, Thomas; Ruther, Michael; Graff, Alan;  
 Schneider, Udo; et al.  
 PATENT ASSIGNEE(S): Bayer A.-G., Germany; Lieb, Folker; Fischer, Reiner;  
 Bretschneider, Thomas; Ruther, Michael; Graff, Alan  
 SOURCE: PCT Int. Appl., 161 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9805638	A2	19980212	WO 1997-EP3973	19970723
WO 9805638	A3	19980319		
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
DE 19716591	A1	19980305	DE 1997-19716591	19970421
AU 9737706	A1	19980225	AU 1997-37706	19970723
AU 726090	B2	20001102		
EP 915846	A2	19990519	EP 1997-934523	19970723
EP 915846	B1	20030423		
R:	BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT			
BR 9711024	A	19990817	BR 1997-11024	19970723
CN 1232450	A	19991020	CN 1997-198554	19970723
JP 2000516918	T2	20001219	JP 1998-507541	19970723
EP 1277749	A1	20030122	EP 2002-23657	19970723
R:	BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT			
EP 1277733	A1	20030122	EP 2002-23658	19970723
R:	BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT			
EP 1277751	A1	20030122	EP 2002-23659	19970723
R:	BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT			
EP 1277734	A1	20030122	EP 2002-23660	19970723
R:	BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT			
EP 1277735	A1	20030122	EP 2002-23661	19970723

R: BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT

PT 915846	T	20030930	PT 1997-934523	19970723
ES 2193389	T3	20031101	ES 1997-934523	19970723
IL 128235	A1	20040328	IL 1997-128235	19970723
IL 155069	A1	20040620	IL 1997-155069	19970723
ZA 9706915	A	19980210	ZA 1997-6915	19970804
US 6114374	A	20000905	US 1999-230653	19990128
KR 2000029671	A	20000525	KR 1999-700749	19990129
US 6255342	B1	20010703	US 2000-548129	20000412
US 2002010204	A1	20020124	US 2001-809619	20010315
US 6359151	B2	20020319		
US 6504036	B1	20030107	US 2001-6115	20011210
US 6596873	B1	20030722	US 2002-264424	20021004
PRIORITY APPLN. INFO.:			DE 1996-19631586	A 19960805
			DE 1997-19716591	A 19970421
			EP 1997-934523	A3 19970723
			IL 1997-128235	A3 19970723
			WO 1997-EP3973	W 19970723
			US 1999-230653	A3 19990128
			US 2000-548129	A3 20000412
			US 2001-809619	A3 20010315
			US 2001-6115	A3 20011210

OTHER SOURCE(S): MARPAT 128:180328  
GI



AB Title compds. [I; X = halo, alkyl, alkenyl, alkynyl, alkoxy, benzyloxy, haloalkyl, haloalkoxy, cyano, NO<sub>2</sub>; Z = H, amino, halo, alkyl, alkoxy, haloalkyl, haloalkoxy, OH, cyano, NO<sub>2</sub>, (substituted) PhO, PhS, heteroaryloxy, heteroarylthio, phenylalkoxy, phenylalkylthio; Q = Q1, Q2; Y = NH, O, S; A = (substituted) alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, (unsatd.) cycloalkyl, heterocyclyl, aryl, aralkyl, heteroaryl; B = alkyl, alkoxyalkyl; AB, AD = atoms to form (unsatd.) (substituted) carbocyclic or heterocyclic rings; D = H, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, alkylthioalkyl, (unsatd.) cycloalkyl, heterocyclyl, aralkyl, aryl, heteroarylalkyl, heteroaryl; G = H, acyl], were prepared Thus, title compound (II) (preparation given) at 0.15 gave 100% kill of *Phaedon cochleariae* larvae on cabbage leaves.

L39 ANSWER 32 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:744622 CAPLUS

DOCUMENT NUMBER: 128:22816

TITLE: Preparation of 3-pyridylpyrrolidine-2,4-dione enols and analogs as herbicides and pesticides

INVENTOR(S): Lieb, Folker; Hagemann, Hermann; Widdig, Arno; Ruther, Michael; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Graff, Alan; Dahmen, Peter; Dollinger, Markus; Gallenkamp, Bernd

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 78 pp.

CODEN: GWXXBX

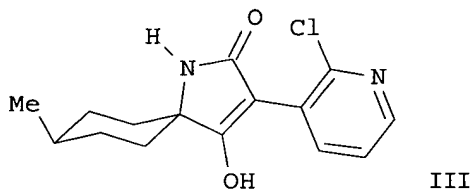
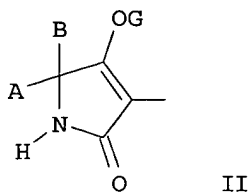
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19651841	A1	19971113	DE 1996-19651841	19961213
WO 9743275	A2	19971120	WO 1997-EP2183	19970428
WO 9743275	A3	19980108		
W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, IL, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9727733	A1	19971205	AU 1997-27733	19970428
EP 912547	A2	19990506	EP 1997-921808	19970428
R: CH, DE, ES, FR, GB, IT, LI				
BR 9708989	A	19990803	BR 1997-8989	19970428
CN 1225092	A	19990804	CN 1997-196293	19970428
JP 2000513715	T2	20001017	JP 1997-540442	19970428
KR 2000010554	A	20000215	KR 1998-708405	19981020
US 6133296	A	20001017	US 1998-180118	19981030
PRIORITY APPLN. INFO.:			DE 1996-19618831	A1 19960510
			DE 1996-19651841	A 19961213
			WO 1997-EP2183	W 19970428
OTHER SOURCE(S):		MARPAT 128:22816		
GI				



AB Title compds. [I; R = e.g., oxopyrrolinyl group II; A = H, (halo)alkyl, (hetero)aryl, etc.; B = H or (alkoxy)alkyl; AB = atoms to form a ring; G = H or acyl; V1 = N, V2 = CH or CZ, and V3 = CY; V1 = CX, V2 = N, and V3 = CY; V1 = CX, V2 = CH or CZ, and V3 = N; W,X,Y,Z = H, halo, alkyl, alkoxy, etc.; WZ,YZ = atoms to form a ring] were prepared Thus, 3-amino-2-chloropyridine was converted in 3 steps to 2-chloropyridine-3-acetic acid which was amidated by Me 1-amino-4-methylcyclohexanecarboxylate and the product cyclized to give title compound III. Data for biol. activity of I were given.

L39 ANSWER 33 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:151521 CAPLUS

DOCUMENT NUMBER: 126:157396

TITLE: Preparation of 3-phenylheterocycloalkyl-2,4-dione enols as pesticides and herbicides

INVENTOR(S): **Lieb, Folker**; Hagemann, Hermann; Widdig, Arno; Ruther, Michael; **Fischer, Reiner**; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Dahmen, Peter; Dollinger, Markus; Santel, Hans-Joachim; Graff, Alan; Andersch, Wolfram

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 135 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

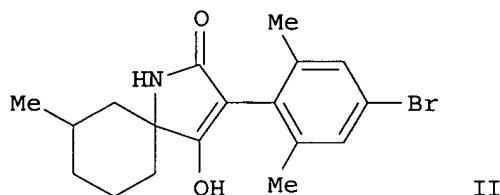
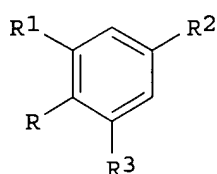
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19603332	A1	19970102	DE 1996-19603332	19960131
CA 2225830	AA	19970123	CA 1996-2225830	19960617
WO 9702243	A1	19970123	WO 1996-EP2601	19960617
W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9663561	A1	19970205	AU 1996-63561	19960617

AU 707357	B2	19990708		
EP 835243	A1	19980415	EP 1996-922817	19960617
EP 835243	B1	20030129		
R: BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL				
CN 1193960	A	19980923	CN 1996-196456	19960617
BR 9609301	A	19990525	BR 1996-9301	19960617
JP 11510481	T2	19990914	JP 1996-504750	19960617
ES 2189877	T3	20030716	ES 1996-922817	19960617
ZA 9605516	A	19970206	ZA 1996-5516	19960628
TW 410141	B	20001101	TW 1996-85107798	19960628
US 5994274	A	19991130	US 1997-981610	19971223
US 6251830	B1	20010626	US 1999-360510	19990726
US 2002022575	A1	20020221	US 2001-839481	20010420
US 6469196	B2	20021022		
CN 1362397	A	20020807	CN 2001-138493	20011114
US 2003144504	A1	20030731	US 2002-197720	20020718
US 6759548	B2	20040706		
PRIORITY APPLN. INFO.:			DE 1995-19523850	A1 19950630
			DE 1996-19603332	A 19960131
			WO 1996-EP2601	W 19960617
			US 1997-981610	A3 19971223
			US 1999-360510	A3 19990726
			US 2001-839481	A3 20010420
OTHER SOURCE(S):			MARPAT 126:157396	
GI				



AB Title compds. [I; R = 4-(O-acyl)hydroxy-2-oxo-3-pyrrolin-2-yl, -2,5-dihydro-3-furyl, -2,5-dihydro-3-thienyl, etc.; R1 = alkyl; R2,R3 = halo or alkyl] were prepared. Thus, 4,2,6-BrMe2C6H2CH2CO2H was amidated by Me 1-amino-3-methylcyclohexanecarboxylate and the product cyclized to give title compound II. Data for biol. activity of I were given.

L39 ANSWER 34 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:140239 CAPLUS

DOCUMENT NUMBER: 126:144113

TITLE: Preparation of 3-phenylheterocycloalkyl-2,4-dione enols as herbicides and pesticides

INVENTOR(S): **Lieb, Folker**; Hagemann, Hermann; Widdig, Arno; Ruther, Michael; **Fischer, Reiner**; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Santel, Hans-Joachim; Dollinger, Markus; Graff, Alan; Mencke, Norbert; Turberg, Andreas; Dahmen, Peter

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 94 pp.

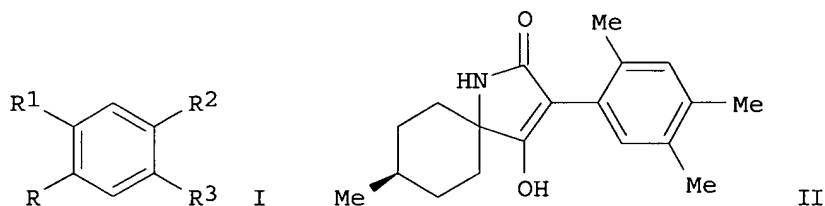
CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19602524	A1	19970102	DE 1996-19602524	19960125
WO 9701535	A1	19970116	WO 1996-EP2606	19960617
W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9663042	A1	19970130	AU 1996-63042	19960617
AU 709848	B2	19990909		
EP 837847	A1	19980429	EP 1996-922005	19960617
EP 837847	B1	20020918		
R: BE, CH, DE, ES, FR, GB, GR, IT, LI, NL				
CN 1198154	A	19981104	CN 1996-196513	19960617
BR 9609250	A	19990518	BR 1996-9250	19960617
JP 11508880	T2	19990803	JP 1996-504136	19960617
RU 2195449	C2	20021227	RU 1998-101701	19960617
ES 2180786	T3	20030216	ES 1996-922005	19960617
ZA 9605465	A	19970124	ZA 1996-5465	19960627
TW 476754	B	20020221	TW 1996-85107720	19960627
US 6110872	A	20000829	US 1997-983028	19971222
US 6511942	B1	20030128	US 2000-496616	20000202
US 2003171219	A1	20030911	US 2002-247013	20020919
US 6933261	B2	20050823		
US 2005038021	A1	20050217	US 2004-923557	20040820
PRIORITY APPLN. INFO.:				
			DE 1995-19523471	A1 19950628
			DE 1996-19602524	A 19960125
			WO 1996-EP2606	W 19960617
			WO 1996-EP2608	W 19960617
			US 1997-983028	A3 19971222
			US 2000-496616	A3 20000202
			US 2002-247013	A3 20020919

OTHER SOURCE(S): MARPAT 126:144113  
 GI



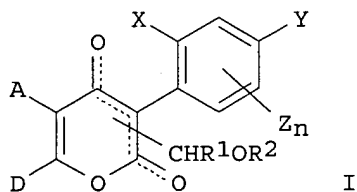
AB Title compds. [I; R = 4-(O-acyl)hydroxy-2-oxo-3-pyrrolinyl, 2,5-dihydro-3-furyl, 2,5-dihydro-3-thienyl, etc.; R<sup>1</sup> = halo, alkyl, alkoxy, etc.; R<sup>2</sup> = H, halo, alkyl, alkoxy, etc.; R<sup>3</sup> = halo, alkyl, alkoxy, etc.] were prepared Thus, 2,4,5-Me<sub>3</sub>C<sub>6</sub>H<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>H (preparation given) was amidated by Me cis-1-amino-4-methylcyclohexanecarboxylate and the product cyclized to give title compound II. Data for biol. activity of I were given.

L39 ANSWER 35 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1997:473590 CAPLUS

Prepared by: Mary Hale @2-2507 Rem Bldg 1D86

DOCUMENT NUMBER: 127:81357  
 TITLE: Preparation of 3-arylpyrone derivatives as pesticides.  
 INVENTOR(S): Bretschneider, Thomas; **Fischer, Reiner;**  
**Lieb, Folker;** Hagemann, Hermann; Ruther,  
 Michael; Stetter, Joerg; Andersch, Wolfram; Erdelen,  
 Christoph; Haensler, Gerd; Mencke, Norbert; Stenzel,  
 Klaus; Turberg, Andreas; Wachendorff-Neumann, Ulrike  
 PATENT ASSIGNEE(S): Bayer A.-G., Germany  
 SOURCE: Ger. Offen., 26 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19544457	A1	19970605	DE 1995-19544457	19951129
WO 9719941	A1	19970605	WO 1996-EP5058	19961118
W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, IL, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9676265	A1	19970619	AU 1996-76265	19961118
EP 865438	A1	19980923	EP 1996-939080	19961118
EP 865438	B1	20011017		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
CN 1207737	A	19990210	CN 1996-199730	19961118
BR 9611834	A	19990309	BR 1996-11834	19961118
JP 2000500767	T2	20000125	JP 1997-520129	19961118
ES 2166008	T3	20020401	ES 1996-939080	19961118
IN 184979	A	20001014	IN 1996-DE2541	19961119
ZA 9609990	A	19970708	ZA 1996-9990	19961128
US 6071937	A	20000606	US 1998-77237	19980522
US 6576771	B1	20030610	US 2000-537144	20000329
PRIORITY APPLN. INFO.:			DE 1995-19544457	A 19951129
			WO 1996-EP5058	W 19961118
			US 1998-77237	A3 19980522
OTHER SOURCE(S):		MARPAT 127:81357		
GI				

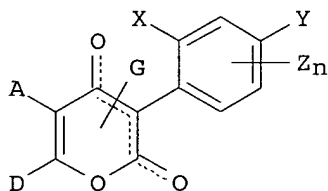


AB Title compds. [I; X = halo, NO<sub>2</sub>, cyano, alkyl, alkenyl, alkoxy, alkenyloxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkyl, haloalkenyl, haloalkoxy, haloalkenyloxy, (substituted) Ph, PhO, PhS, PhCH<sub>2</sub>O, PhCH<sub>2</sub>S; Y = H, halo, NO<sub>2</sub>, alkyl, alkenyl, alkoxy, alkenyloxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkyl, haloalkenyl, haloalkoxy, haloalkenyloxy; Z = halo, NO<sub>2</sub>, cyano, alkyl, alkenyl, alkoxy, alkenyloxy, haloalkyl, haloalkenyl, haloalkoxy, haloalkenyloxy; n = 0-2; A = H, halo, (substituted) alkyl, cycloalkyl, alkenyl, alkynyl, aralkyl,

aryl, heteroaralkyl, heteroaryl, cyano, acyl; D = H, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, polyalkoxyalkyl, alkylthioalkyl, (unsatd.) cycloalkyl, heterocyclyl, aralkyl, aryl, heteroaralkyl, heteroaryl; AD = (substituted) (heteroatom-interrupted) alkylene, alkenylene; R1 = H, (halo)alkyl; R2 = (halo)alkyl, (halo)alkenyl, (halo)alkynyl], were prepared Thus, 4-hydroxy-5-methyl-6-(2-pyridyl)-3-(2,4,6-trimethylphenyl)-2-pyrone, Et3N, and propargyl chloromethyl ether were stirred in EtOAc to give 82% 5-methyl-6-(2-pyridyl)-4-propargyloxymethoxy-3-(2,4,6-trimethylphenyl)-2-pyrone. Several I at 0.01% gave a 100% kill of Phaeton cochleariae on cabbage leaves.

L39 ANSWER 36 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1997:397224 CAPLUS  
 DOCUMENT NUMBER: 127:17590  
 TITLE: Preparation of 3-aryl-5-halopyrones as pesticides and herbicides.  
 INVENTOR(S): **Fischer, Reiner; Lieb, Folker;**  
 Ruther, Michael; Stetter, Joerg Prof; Dollinger, Markus; Erdelen, Christoph; Mencke, Norbert; Santel, Hans-Joachim; Turberg, Andreas; Wachendorff-neumann, Ulrike  
 PATENT ASSIGNEE(S): Bayer A.-G., Germany  
 SOURCE: Ger. Offen., 33 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19540080	A1	19970430	DE 1995-19540080	19951027
WO 9716436	A1	19970509	WO 1996-EP4475	19961015
W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9672928	A1	19970522	AU 1996-72928	19961015
EP 879232	A1	19981125	EP 1996-934687	19961015
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
CN 1206413	A	19990127	CN 1996-199399	19961015
BR 9611130	A	19990330	BR 1996-11130	19961015
JP 11514630	T2	19991214	JP 1996-517019	19961015
US 5977029	A	19991102	US 1998-51881	19980420
PRIORITY APPLN. INFO.:			DE 1995-19540080	A 19951027
			WO 1996-EP4475	W 19961015
OTHER SOURCE(S):			MARPAT 127:17590	
GI				



I



AB Title compds. [I; X = halo, NO<sub>2</sub>, cyano, alkyl, alkenyl, alkoxy, alkenyloxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkyl, haloalkenyl, haloalkoxy, haloalkenyloxy, (substituted) Ph, PhO, PhS, PhCH<sub>2</sub>O, PhCH<sub>2</sub>S; Y = H, halo, NO<sub>2</sub>, cyano, alkyl, alkenyl, alkoxy, alkenyloxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkyl, haloalkenyl, haloalkoxy, haloalkenyloxy; Z = halo, NO<sub>2</sub>, cyano, alkyl, alkenyl, alkoxy, alkenyloxy, haloalkyl, haloalkenyl, haloalkoxy, haloalkenyloxy; n = 0-3; A = halo, D = H, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, polyalkoxyalkyl, alkylthioalkyl, (unsatd.) cycloalkyl, heterocyclyl, aralkyl, aryl, heteroarylalkyl, heteroaryl; G = H, acyl], were prepared Thus, mesityl chlorocarbonyl ketene and 4-chlorophenyl chloromethyl ketone were heated at 200° for 6 h to give 93% 5-chloro-6-(4-chlorophenyl)-4-hydroxy-3-(2,4,6-trimethylphenyl)-2-pyrone. The latter and other I at 0.1% on Brassica oleracea leaves gave 80-100% kill of Myzus persicae.

L39 ANSWER 37 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

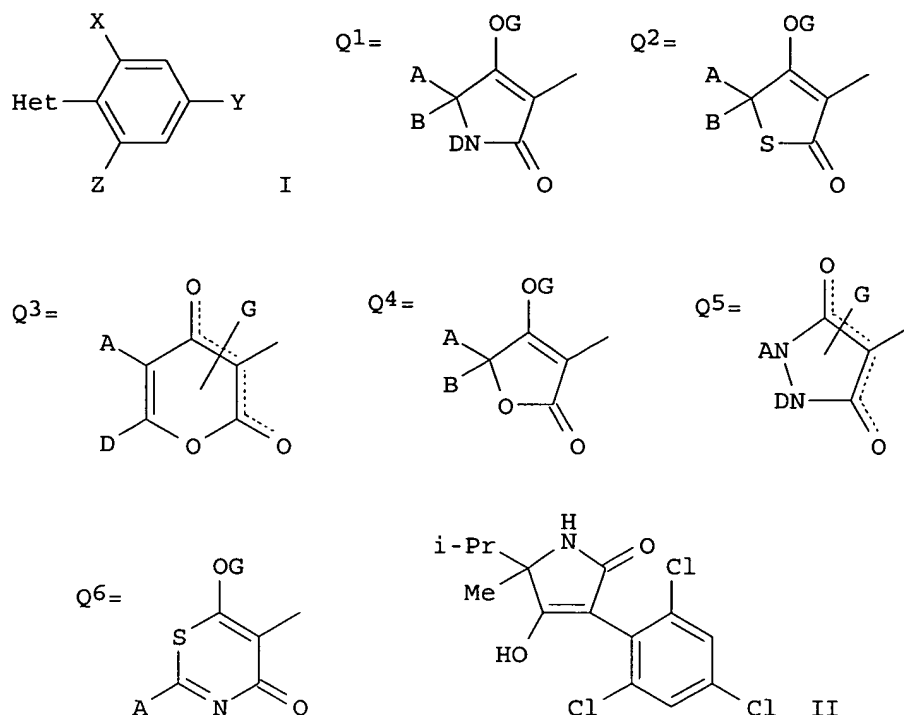
ACCESSION NUMBER: 2002:50625 BIOSIS  
DOCUMENT NUMBER: PREV200200050625  
TITLE: 5-Aryl-1,3-thiazine derivatives.  
AUTHOR(S): **Fischer, R.** [Inventor]; **Lieb, F.** [Inventor]; Ruther, M. [Inventor]; Stetter, J. [Inventor]; Erdelen, C. [Inventor]; Wachendorff-Neumann, U. [Inventor]; Dollinger, M. [Inventor]; Luerksen, K. [Inventor]; Santel, H-J. [Inventor]  
CORPORATE SOURCE: Monheim, Germany  
ASSIGNEE: BAYER AKTIENGESELLSCHAFT  
PATENT INFORMATION: US 5565450 19961015  
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (Oct. 15, 1996) Vol. 1191, No. 3, pp. 1955-1956. print.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 2 Jan 2002  
Last Updated on STN: 25 Feb 2002

L39 ANSWER 38 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:41800 CAPLUS  
DOCUMENT NUMBER: 126:74741  
TITLE: Alkyl dihalogenated phenyl-substituted keto enols useful as pesticides and herbicides  
INVENTOR(S): **Lieb, Folker**; Hagemann, Hermann; Widdig, Arno; Ruther, Michael; **Fischer, Reiner**; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Dahmen, Peter; Dollinger, Markus; Santel, Hans-Joachim; et al.  
PATENT ASSIGNEE(S): Bayer A.-G., Germany; Lieb, Folker; Hagemann, Hermann; Widdig, Arno; Ruther, Michael; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; et al.  
SOURCE: PCT Int. Appl., 231 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9635664	A1	19961114	WO 1996-EP1781	19960429
W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ,				
PL, RO, RU, SK, TR, UA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
DE 19545467	A1	19961114	DE 1995-19545467	19951206
CA 2220440	AA	19961114	CA 1996-2220440	19960429
AU 9657626	A1	19961129	AU 1996-57626	19960429
EP 825982	A1	19980304	EP 1996-914146	19960429
EP 825982	B1	20021127		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
CN 1189153	A	19980729	CN 1996-195072	19960429
CN 1131209	B	20031217		
BR 9608229	A	19981229	BR 1996-8229	19960429
JP 11505220	T2	19990518	JP 1996-533707	19960429
ES 2184858	T3	20030416	ES 1996-914146	19960429
CN 1473814	A	20040211	CN 2003-2003136022	19960429
ZA 9603633	A	19961125	ZA 1996-3633	19960508
US 6316486	B1	20011113	US 1997-945664	19971031
US 6380246	B1	20020430	US 1999-404424	19990923
US 2003199572	A1	20031023	US 2001-17695	20011214
US 6858741	B2	20050222		
US 2005164885	A1	20050728	US 2004-903550	20040730
PRIORITY APPLN. INFO.:			DE 1995-19516258	A 19950509
			DE 1995-19545467	A 19951206
			WO 1996-EP1781	W 19960429
			WO 1996-EP17871	W 19960429
			US 1997-945664	B3 19971031
			US 1997-945665	A3 19971031
			US 1999-404424	A3 19990923
			US 2001-17695	A3 20011214
OTHER SOURCE(S) :	MARPAT 126:74741			
GI				



AB Title compds. I [X = halo, Y, Z = halo or alkyl, provided that 1 of Y and Z always = halo, and the other = alkyl; Het = 1 of the heterocyclic groups Q1-Q6; A = H, (halo)alkyl, alkenyl, alkoxyalkyl, (un)substituted cycloalkyl or heterocyclyl, etc.; B = H, alkyl, alkoxyalkyl; D = H, (un)substituted alk(en/yn)yl, alkoxyalkyl, cycloalkyl, aralkyl, heterocyclyl, aryl, etc.; A and B, or A and D, may form (un)substituted carbo- or heterocyclic rings; G = various acyl, sulfonyl, or phosphoryl substituents, or metal or ammonium ions] are prepared. Also disclosed are several processes for preparing the compds., and their use as pesticides and herbicides. For example, amidation of 2,4-dichloro-6-methylphenylacetic acid with  $\text{H}_2\text{NC}(\text{Me})(i\text{-Pr})\text{CN}$  via the acid chloride using  $\text{SOCl}_2$  (81%), followed by alcoholysis of the nitrile using  $\text{H}_2\text{SO}_4$  and MeOH quench (73%), and cyclization of the resultant ester with KOBu-tert in THF (73%), gave title compound II. In a test against *Myzus persicae* at 0.1%, II gave 100% kill in 6 days. At 250 g/ha preemergence, selected I gave 80-100% kill of 4 weeds with 0-50% damage to *Beta vulgaris*.

L39 ANSWER 39 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:577745 CAPLUS

DOCUMENT NUMBER: 125:221568

TITLE: Preparation of 3-phenyl-2,4-dioxopyrrolidine tautomers and analogs as herbicides and pesticides

INVENTOR(S): Fischer, Reiner; Bretschneider, Thomas; Hagemann, Hermann; Lieb, Folker; Lui, Norbert; Ruther, Michael; Widdig, Arno; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; et al.

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 94 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

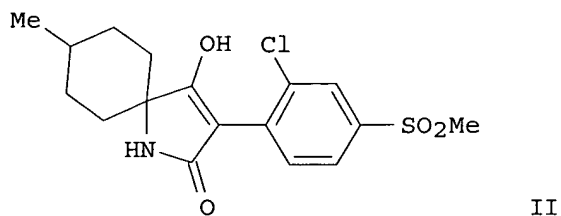
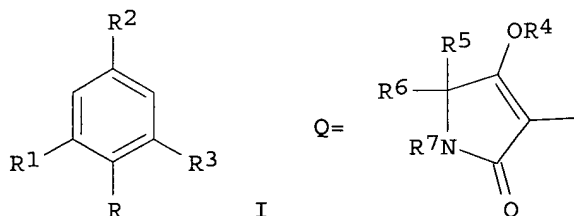
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19543864	A1	19960814	DE 1995-19543864	19951124
WO 9625395	A1	19960822	WO 1996-EP382	19960131
W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9647158	A1	19960904	AU 1996-47158	19960131
BR 9606956	A	19971028	BR 1996-6956	19960131
EP 809629	A1	19971203	EP 1996-902951	19960131
EP 809629	B1	20040630		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
CN 1173866	A	19980218	CN 1996-191907	19960131
JP 11500114	T2	19990106	JP 1996-524608	19960131
ES 2224156	T3	20050301	ES 1996-902951	19960131
ZA 9601107	A	19960828	ZA 1996-1107	19960212
US 6358887	B1	20020319	US 1997-875872	19970805
US 2003045432	A1	20030306	US 2001-14713	20011211
US 6746990	B2	20040608		
PRIORITY APPLN. INFO.:			DE 1995-19504621	A1 19950213
			DE 1995-19543864	A 19951124
			WO 1996-EP382	W 19960131
			US 1997-875872	A3 19970805

OTHER SOURCE(S): MARPAT 125:221568  
GI



AB Title compds. [I; R = oxopyrrolinyl group Q; R1 = halo, alkyl, alkoxy, Ph, etc.; R2,R3 = H, halo, alkyl, alkoxy, etc.; R4 = H, alkanoyl, alkoxy carbonyl, etc.; R5 = H, alkyl, (hetero)aryl, etc.; R6 = H, (alkoxy)alkyl; R5R6 = atoms to form a ring; R7 = H, alkyl, (hetero)aryl, etc.; R6R7 = atoms to form a ring] were prepared. Thus, 2,4-Cl(MeO2S)C6H3Me was converted in 3 steps to 2,4-Cl(MeO2S)C6H3CH2CO2H which was amidated by Me 1-amino-4-methylcyclohexanecarboxylate and the product cyclized to give

title compound II. The latter gave complete control of Nephrotettix cincteps on rice seedlings at 0.1%.

L39 ANSWER 40 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:443909 CAPLUS

DOCUMENT NUMBER: 125:114464

TITLE: Preparation of thiophene derivatives as pesticide and herbicide

INVENTOR(S): Fischer, Reiner; Dumas, Jacques; Bretschneider, Thomas; Gallenkamp, Bernd; Lieb, Folker; Wernthaler, Konrad; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Mencke, Norbert; Turberg, Andreas

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 96 pp.

CODEN: GWXXBX

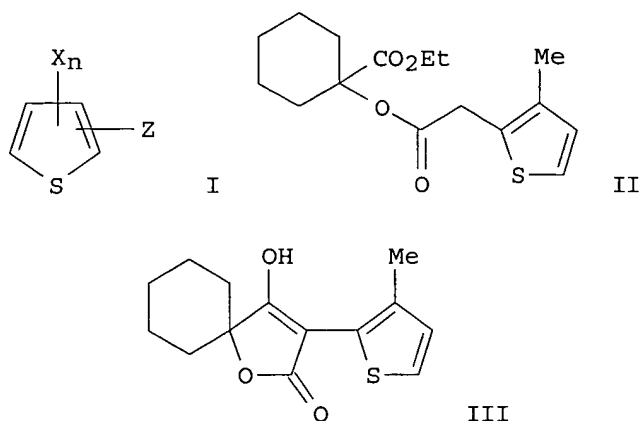
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19527190	A1	19960523	DE 1995-19527190	19950726
WO 9616061	A1	19960530	WO 1995-EP4355	19951106
W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9538710	A1	19960617	AU 1995-38710	19951106
EP 792272	A1	19970903	EP 1995-937871	19951106
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
BR 9509793	A	19970930	BR 1995-9793	19951106
JP 10509155	T2	19980908	JP 1995-516491	19951106
ZA 9509752	A	19960613	ZA 1995-9752	19951116
US 5807805	A	19980915	US 1997-836336	19970509
US 6025383	A	20000215	US 1998-89945	19980603
US 6100220	A	20000808	US 1999-339782	19990624
PRIORITY APPLN. INFO.:			DE 1994-4440899	A1 19941117
			DE 1995-19527190	A 19950726
			WO 1995-EP4355	W 19951106
			US 1997-836336	A3 19970509
			US 1998-89945	A3 19980603
OTHER SOURCE(S):		CASREACT 125:114464; MARPAT 125:114464		
GI				



AB The preparation of title compds. I (X = halo, alkyl, alkoxy, alkylthio, haloalkyl, haloalkoxy, nitro, cyano, disubstituted hydrocarbon; n = 1-3; Z = substituted heterocyclic compds.), useful as pesticide and herbicide, is described. Thus, KOBu<sup>t</sup>/DMF mediated cyclization of substituted thiophene derivative II (preparation given) gave title compound III, the Tetranychus test of some of the compds. prepared, e.g. III, is given.

L39 ANSWER 41 OF 43 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

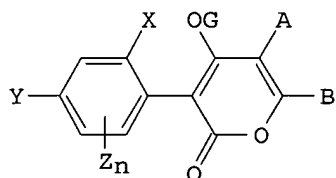
ACCESSION NUMBER: 2002:15269 BIOSIS  
DOCUMENT NUMBER: PREV200200015269  
TITLE: 3-Aryl-pyrone derivatives.  
AUTHOR(S): **Fischer, R.** [Inventor]; Krebs, A. [Inventor];  
**Lieb, F.** [Inventor]; Ruther, M. [Inventor];  
Stetter, J. [Inventor]; Erdelen, C. [Inventor];  
Wachendorff-Neumann, U. [Inventor]; Luerksen, K.  
[Inventor]; Santel, H-J. [Inventor]; Schmidt, R. R.  
[Inventor]  
CORPORATE SOURCE: Monheim, Germany  
ASSIGNEE: BAYER AKTIENGESellschaft  
PATENT INFORMATION: US 5393729 19950228  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Feb. 28, 1995) Vol. 1171, No. 4, pp.  
2575-2576. print.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 28 Dec 2001  
Last Updated on STN: 25 Feb 2002

L39 ANSWER 42 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

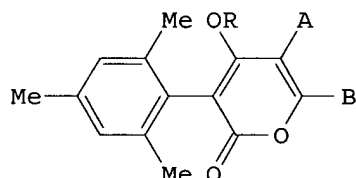
ACCESSION NUMBER: 1994:483059 CAPLUS  
DOCUMENT NUMBER: 121:83059  
TITLE: Preparation of 3-aryl-2-pyrans as pesticides and  
herbicides  
INVENTOR(S): **Fischer, Reiner**; Krebs, Andreas; **Lieb,**  
**Folker**; Ruther, Michael; Stetter, Joerg; Erdelen,  
Christoph; Wachendorff-neumann, Ulrike; Luerksen,  
Klaus Dr; Santel, Hans-joachim Dr; Schmidt, Robert R.  
Dr

PATENT ASSIGNEE(S): Bayer A.-G., Germany  
 SOURCE: Eur. Pat. Appl., 51 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 588137	A1	19940323	EP 1993-113815	19930830
EP 588137	B1	19990203		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
DE 4308451	A1	19940414	DE 1993-4308451	19930317
AU 9344893	A1	19940317	AU 1993-44893	19930825
AU 681345	B2	19970828		
AT 176465	E	19990215	AT 1993-113815	19930830
ES 2128375	T3	19990516	ES 1993-113815	19930830
JP 06220036	A2	19940809	JP 1993-242153	19930903
JP 3542816	B2	20040714		
US 5393729	A	19950228	US 1993-116790	19930903
CA 2105614	AA	19940311	CA 1993-2105614	19930907
BR 9303748	A	19940315	BR 1993-3748	19930909
HU 68668	A2	19950728	HU 1993-2554	19930909
CN 1085554	A	19940420	CN 1993-117691	19930910
CN 1054851	B	20000726		
PRIORITY APPLN. INFO.:			DE 1992-4230267	A 19920910
			DE 1993-4308451	A 19930317
OTHER SOURCE(S):			MARPAT 121:83059	
GI				



I



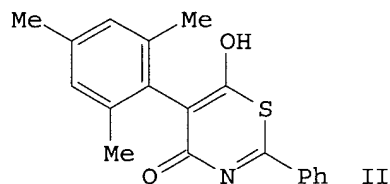
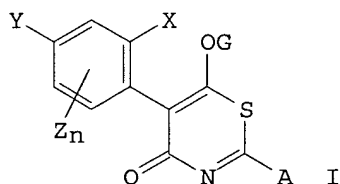
II

AB Title compds. [I; A = H, halo, (cyclo)alkyl, (hetero)aryl, alkanoyl, alkoxy, carbonyl, etc.; B = H, (cyclo)alkyl, (hetero)aryl, etc.; AB = (hetero-atom interrupted)alk(en)ylene; G = H, metal ion, COR<sub>3</sub>, SO<sub>2</sub>R<sub>5</sub>, CONH<sub>2</sub>, etc.; R<sub>3</sub> = alk(en)yl, (hetero)aryl, etc.; R<sub>5</sub> = alkyl, alkoxy, dialkylamino, etc.; X = halo, alkyl, alkoxy; Y = H, halo, (cyclo)alkyl, alkoxy; Z = H, halo, alkyl, alkoxy; n = 1-3] were prepared. Thus, 2,4,6-Me<sub>3</sub>C<sub>6</sub>H<sub>2</sub>C(COCl):CO (preparation given) was cyclocondensed with MeCOCH<sub>2</sub>CO<sub>2</sub>Et to give title compound II (A = CO<sub>2</sub>Et, B = Me, R = H). II (A = H, B = CMe<sub>3</sub>, R = CO<sub>2</sub>Et) gave complete control of *Nephotettix cincticeps* on rice at 0.1%.

L39 ANSWER 43 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1994:534136 CAPLUS  
 DOCUMENT NUMBER: 121:134136  
 TITLE: Preparation of 5-aryl-1,3-thiazin-4-ones as pesticides and herbicides  
 INVENTOR(S): Fischer, Reiner; Lieb, Folker;  
 Ruther, Michael; Stetter, Joerg; Erdelen, Christoph;

Wachendorff-Neumann, Ulrike; Dollinger, Markus;  
 Luerksen, Klaus; Santel, Hans Joachim  
 PATENT ASSIGNEE(S): Bayer A.-G., Germany  
 SOURCE: Ger. Offen., 26 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4243818	A1	19940630	DE 1992-4243818	19921223
WO 9414785	A1	19940707	WO 1993-EP3483	19931210
W: AU, BR, BY, CA, CZ, HU, JP, KR, KZ, NZ, RU, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9456988	A1	19940719	AU 1994-56988	19931210
EP 675882	A1	19951011	EP 1994-902743	19931210
EP 675882	B1	20011114		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL, PT				
JP 08505842	T2	19960625	JP 1994-514738	19931210
JP 3583422	B2	20041104		
ES 2167357	T3	20020516	ES 1994-902743	19931210
US 5565450	A	19961015	US 1995-448621	19950606
JP 2004339225	A2	20041202	JP 2004-167573	20040604
PRIORITY APPLN. INFO.:			DE 1992-4243818	A 19921223
			JP 1994-514738	A3 19931210
			WO 1993-EP3483	W 19931210
OTHER SOURCE(S):		MARPAT 121:134136		
GI				



AB Title compds. [I; A = (cyclo)alkyl, alkoxy, (hetero)aryl(alkyl), COR1, CO2R1, etc.; G = H, metal atom, NH4, COR3, SO2R5, etc.; R1 = alkyl, alkenyl, (hetero)aryl(alkyl), etc.; R3 = (alkoxy)alkyl, (hetero)aryl(alkyl), etc.; R5 = alkyl, alkoxy, (di)alkylamino, etc.; X = halo, alkyl, alkoxy; Y = H, halo, (halo)alkyl, alkoxy; Z = H, halo, alkyl, alkoxy; n = 1-3] were prepared Thus, 2,4,6-Me3C6H2C(:CO)COCl (preparation given)  
 was cyclocondensed with PhCSNH2 to give title compound II which gave complete kill of Paedon cochleariae larvae on cabbage leaves wetted with a 0.1% solution

=> dis his ful

(FILE 'HOME' ENTERED AT 10:55:14 ON 25 AUG 2005)

FILE 'REGISTRY' ENTERED AT 10:55:23 ON 25 AUG 2005

L1 STR

Prepared by: Mary Hale @2-2507 Rem Bldg 1D86



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L2          0 SEA SSS SAM L1
L3          STR L1
L4          0 SEA SSS SAM L3
L5          0 SEA SSS FUL L3
L6          STR L3
L7          7 SEA SSS SAM L6
L8          84 SEA SSS FUL L6
           D L8 QUE STAT

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FILE 'MEDLINE, BIOSIS, EMBASE, CAPLUS' ENTERED AT 11:15:01 ON 25 AUG 2005

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L9          0 SEA ABB=ON  PLU=ON  L8
L10         0 SEA ABB=ON  PLU=ON  L8
L11         0 SEA ABB=ON  PLU=ON  L8
L12         3 SEA ABB=ON  PLU=ON  L8
TOTAL FOR ALL FILES
L13         3 SEA ABB=ON  PLU=ON  L8
           D 1-3 IBIB ABS HITSTR
L14        786 SEA ABB=ON  PLU=ON  LIEB ?/AU
L15        790 SEA ABB=ON  PLU=ON  LIEB ?/AU
L16        599 SEA ABB=ON  PLU=ON  LIEB ?/AU
L17       1492 SEA ABB=ON  PLU=ON  LIEB ?/AU
TOTAL FOR ALL FILES
L18       3667 SEA ABB=ON  PLU=ON  LIEB ?/AU
L19        16 SEA ABB=ON  PLU=ON  LIEB F?/AU
L20        50 SEA ABB=ON  PLU=ON  LIEB F?/AU
L21         9 SEA ABB=ON  PLU=ON  LIEB F?/AU
L22       122 SEA ABB=ON  PLU=ON  LIEB F?/AU
TOTAL FOR ALL FILES
L23       197 SEA ABB=ON  PLU=ON  LIEB F?/AU
L24      1820 SEA ABB=ON  PLU=ON  FISCHER R?/AU
L25      1846 SEA ABB=ON  PLU=ON  FISCHER R?/AU
L26      1206 SEA ABB=ON  PLU=ON  FISCHER R?/AU
L27      3407 SEA ABB=ON  PLU=ON  FISCHER R?/AU
TOTAL FOR ALL FILES
L28      8279 SEA ABB=ON  PLU=ON  FISCHER R?/AU
L29         0 SEA ABB=ON  PLU=ON  L19 AND L24
L30        21 SEA ABB=ON  PLU=ON  L20 AND L25
L31         1 SEA ABB=ON  PLU=ON  L21 AND L26
L32        22 SEA ABB=ON  PLU=ON  L22 AND L27
TOTAL FOR ALL FILES
L33        44 SEA ABB=ON  PLU=ON  L23 AND L28
L34         0 SEA ABB=ON  PLU=ON  L29 NOT L9
L35        21 SEA ABB=ON  PLU=ON  L30 NOT L10
L36         1 SEA ABB=ON  PLU=ON  L31 NOT L11
L37        22 SEA ABB=ON  PLU=ON  L32 NOT L12
TOTAL FOR ALL FILES
L38        44 SEA ABB=ON  PLU=ON  L33 NOT L13
L39        43 DUP REM L38 (1 DUPLICATE REMOVED)
           D 1-43 IBIB ABS

```

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 23 AUG 2005 HIGHEST RN 861509-89-9  
 DICTIONARY FILE UPDATES: 23 AUG 2005 HIGHEST RN 861509-89-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005. A new display format, IDERL, is now     *
* available and contains the CA role and document type information. *
*                                                                     *
*****
```

Structure search iteration limits have been increased. See HELP SLIMITS  
for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

#### FILE MEDLINE

FILE LAST UPDATED: 24 AUG 2005 (20050824/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP  
RLOAD at an arrow prompt (=>). See also:

<http://www.nlm.nih.gov/mesh/>  
[http://www.nlm.nih.gov/pubs/techbull/nd04/nd04\\_mesh.html](http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html)

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the  
MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

#### FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 17 August 2005 (20050817/ED)

FILE RELOADED: 19 October 2003.

#### FILE EMBASE

FILE COVERS 1974 TO 18 Aug 2005 (20050818/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

## FILE CAPLUS

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FILE COVERS 1907 - 25 Aug 2005 VOL 143 ISS 9  
FILE LAST UPDATED: 24 Aug 2005 (20050824/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	134.75	470.95
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
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CA SUBSCRIBER PRICE	-17.52	-17.52

STN INTERNATIONAL LOGOFF AT 11:21:21 ON 25 AUG 2005

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